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[TENTATIVE] MONITORING & REPORTING PROGRAM (MRP)
R5-2022-XXXX



ORDER INFORMATION

Order Type(s):	Monitoring & Reporting Program (MRP)
Status:	TENTATIVE
Program:	Title 27 Discharges to Land
Region 5 Office:	Sacramento (Rancho Cordova)
Discharger(s):	Amador County
Facility:	Buena Vista Landfill
Address:	6500 Lone Buena Vista Road, Lone, California 95640
County:	Amador County
Parcel Nos.:	12-04-040 through 12-04-046
WDID:	L10008365060
Prior Order(s):	R5-2018-0020; R5-2011-0062; R5-2018-0020; R5-2011-0062; R5-2003-0078; R5-2000-0169

CERTIFICATION

I, PATRICK PULUPA, Executive Officer, hereby certify that the following is a full, true, and correct copy of the order adopted by the California Regional Water Quality Control Board, Central Valley Region, on _____ April 2022.

PATRICK PULUPA,
Executive Officer

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TABLE OF CONTENTS

TABLE INDEX	v
GLOSSARY	vii
PREFACE	2
MONITORING & REPORTING PROGRAM	2
A. General Provisions	2
1. Incorporation of Standard Provisions	2
2. Monitoring Provisions in WDRs Order	2
3. Compliance with Title 27	3
4. Sample Collection and Analysis Plan (SCAP)	3
B. Detection Monitoring Program (DMP)	3
1. Groundwater	3
a. Required Network	4
b. Sample Collection and Analysis	5
c. Five-Year COCs	6
d. Groundwater Conditions	7
2. Unsaturated Zone	8
a. Required Network	8
b. Soil Pore Gas (SPG) Monitoring	9
c. Monthly Lysimeter Inspection	10
d. Five-Year COCs	11
3. Surface Water	12
a. Required Network	12

b. Sample Collection and Analysis.....	13
c. Five-Year COCs	14
4. Class II Surface Impoundment Liquids.....	15
5. Summary of Water Quality Protection Standard (WQPS) Components	15
a. Compliance Period	16
b. Monitoring Points	16
c. Point of Compliance (POC).....	16
d. Constituents of Concern (COCs)	16
e. Monitoring Parameters.....	17
f. Five-Year COCs	17
g. Concentration Limits	18
h. Retesting Procedures	20
C. Corrective Action Monitoring Program (CAMP).....	20
1. Groundwater Corrective Action	20
2. Unsaturated Zone Corrective Action	20
3. Groundwater Extraction Well System.....	20
4. Landfill Gas Corrective Action.....	22
a. Extraction Well Field	23
b. Probe Network.....	24
D. Additional Facility Monitoring	25
1. Leachate Collection & Removal System (LCRS)	25
a. Annual LCRS Testing	25
b. Monthly Sump Inspection.....	25

c. First Detection of Leachate in Sump.....	26
d. Five-Year COCs	27
2. Leachate Seepage.....	28
3. Regular Visual Inspection.....	29
4. Annual Facility Inspections.....	30
5. Major Storm Events.....	31
6. Five-Year Iso-Settlement Surveys (Closed Landfills).....	31
E. Reporting Requirements.....	31
1. Semiannual Monitoring Reports (SMRs).....	32
2. Annual Monitoring Reports (AMRs).....	34
3. Leachate Seep Reporting.....	35
4. Annual Facility Inspection Report.....	36
5. Major Storm Event Reports.....	36
6. Survey and Iso-Settlement Map (Closed Landfill Units).....	36
7. Financial Assurances Report	36
8. Water Quality Protection Standard Report.....	37
9. General Reporting Provisions	38
a. Transmittal Letters	38
b. Monitoring Data and Reports.....	38
c. Compliance with SPRRs.....	39
d. Additional Requirements for Monitoring Reports	39
F. Record Retention Requirements.....	39
ATTACHMENT A—VOLATILE ORGANIC COMPOUNDS, SHORT LIST.....	42

ATTACHMENT B—DISSOLVED INORGANICS (FIVE-YEAR COCS)..... 45

ATTACHMENT C—VOLATILE ORGANIC COMPOUNDS, EXTENDED LIST (FIVE-YEAR COCS)..... 47

ATTACHMENT D—SEMI-VOLATILE ORGANIC COMPOUNDS (FIVE-YEAR COCS)..... 51

ATTACHMENT E—CHLOROPHENOXY HERBICIDES (FIVE-YEAR COCS)..... 57

ATTACHMENT F—ORGANOPHOSPHORUS COMPOUNDS (FIVE YEAR COCS)... 58

TABLE INDEX

Table 1—Groundwater Monitoring Network	4
Table 2—Groundwater Detection Monitoring, Physical Parameters	5
Table 3—Groundwater Detection Monitoring, Constituent Parameters.....	6
Table 4—Groundwater Detection Monitoring, Five-Year COCs	6
Table 5—Groundwater Detection Monitoring, Groundwater Conditions.....	7
Table 6—Unsaturated Zone & Landfill Gas Monitoring Network	8
Table 7—Unsaturated Zone Detection Monitoring (Soil Pore Gas), Constituent Parameters	10
Table 8—Unsaturated Zone Detection Monitoring (Lysimeters), Physical Parameters .	10
Table 9—Unsaturated Zone Detection Monitoring (Lysimeters), Constituent Parameters	11
Table 10—Unsaturated Zone Detection Monitoring (Lysimeter), Five-Year COCs	11
Table 11—Surface Water Detection Monitoring Network.....	13
Table 12—Surface Water Detection Monitoring, Physical Parameters	13
Table 13—Surface Water Detection Monitoring, Constituent Parameters.....	14
Table 14—Surface Water Detection Monitoring, Five-Year COCs.....	15
Table 15—Notable Concentration Limits, 1SA 2021 Annual Report (WQPS).....	19
Table 16—Groundwater Corrective Action, Extraction Well Network.....	21
Table 17—Landfill Gas Corrective Action Monitoring, Control System Performance	22
Table 18—Landfill Gas Corrective Action, Extraction Well Network Monitoring Parameters.....	23
Table 19—Landfill Gas Corrective Action, Probe Network	24
Table 20—Landfill Gas Corrective Action, Probe Network Monitoring Parameters	24
Table 21—LCRS Sump Monitoring, Monthly Inspection Parameters	25

Table 22—LCRS Sump Monitoring, Parameters for Subsequent Monitoring.....	26
Table 23—LCRS Sump Monitoring, Five-Year COCs	27
Table 24—Leachate Seep Monitoring, Physical Parameters	28
Table 25—Leachate Seep Monitoring, Constituent Parameters	29
Table 26—Criteria for Regular Visual Inspections.....	30
Table 27—Regular Visual Inspection Schedule	30
Table 28—Summary of Required Reports	31
Table 29—Estimated VOC Mass Removal	35

GLOSSARY

AMR	Annual Monitoring Report
CalRecycle	California Department of Resources Recycling and Recovery
CAMP	Corrective Action Monitoring Program
C.F.R.....	Code of Federal Regulations
CIWQS	California Integrated Water Quality System Project
COCs	Constituents of Concern
DMP	Detection Monitoring Program
DWR.....	California Department of Water Resources
EC	Electrical Conductivity
ELAP	State Water Board's Environmental Laboratory Accreditation Program (formerly administered by California Department of Public Health)
EMP	Evaluation Monitoring Program
EW	Extraction Well
Five-Year COCs	Five-Year Constituents of Concern
GeoTracker	State Water Board's Data Management System for Sites with Potential Groundwater Impact
GP.....	Gas Probe
LCRS.....	Leachate Collection and Removal System
LF	Landfill
LFG	Landfill Gas
MDL.....	Method Detection Limit

Method TO-15 VOCs.....	Volatile Organic Compounds associated with USEPA Method TO-15
MRP	Monitoring and Reporting Program
MSW	Municipal Solid Waste
MSWLF	Municipal Solid Waste Landfill
N/A	Not Applicable
PID	Photo Ionization Detector
POC	Point of Compliance for Water Quality Protection Standard
QA/QC.....	Quality Assurance/Quality Control
Qualified Professional	Professional Civil Engineer or Geologist licensed by the State of California
RCRA	Resource Conservation and Recovery Act, 42 U.S.C. § 6901 et seq.
RL.....	Reporting Limit
ROWD / JTD	Report of Waste Discharge / Joint Technical Document
SCAP	Sample Collection and Analysis Plan
SGP.....	Soil Pore Gas
SI.....	Surface Impoundment
SMR	Semiannual Monitoring Report
SPRRs / Standard Provisions	Standard Provisions and Reporting Requirements for Nonhazardous Solid Waste Discharges Regulated by Subtitle D and/or Title 27 Municipal Solid Waste Facilities, December 2015 Edition
TDS	Total Dissolved Solids

Title 27California Code of Regulations, Title 27
USEPA.....United States Environmental Protection Agency
VOCs.....Volatile Organic Compounds
WDRs.....Waste Discharge Requirements
WMUWaste Management Unit
WQPSWater Quality Protection Standard

UNITS

ft³ / minCubic Feet per Minute
°FDegrees Fahrenheit
Gallons/Day.....Gallons per Day
mg/LMilligrams per Liter
µg/LMicrograms per Liter
µmhos/cm.....Microsiemens per Centimeter
µg/cm³Micrograms per Cubic Centimeter
NTUsNephelometric Turbidity Units
% Vol.....Percent by Volume
Inches HgInches of Mercury (Barometric Pressure)
MM Hg VacuumMillimeters of Mercury (Barometric Pressure)

PREFACE

Adopted by the California Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) pursuant to Water Code section 13267, subdivision (b)(1), this Order establishes a Monitoring and Reporting Program (MRP) for Amador County (Discharger), which owns and operates the Buena Vista Landfill (Facility) in Amador County. Additional information regarding the Facility is set forth in the enumerated findings of Waste Discharge Requirements Order R5-2022-XXXX (WDRs Order). Except as otherwise provided in the following MRP, these findings are incorporated herein.

The MRP also contains supplemental findings related to monitoring and reporting activities, and/or Facility conditions. For the purposes of California Code of Regulations, title 27 (Title 27) (e.g., §§ 21720, 20380-20435), the findings and provisions of this Order are conversely incorporated as part of the WDRs Order as well.

Although adopted with the WDRs Order, this is a separate order subject to subsequent revision by the Executive Officer in accordance with delegated authority per Water Code § 13223. For the purposes of Title 27, such revisions shall be automatically incorporated as part of the WDRs Order.

MONITORING & REPORTING PROGRAM

IT IS HEREBY ORDERED, pursuant to Water Code § 13267: that all previously issued Monitoring and Reporting Program(s) for the discharge of solid waste at the Facility are rescinded (except for enforcement purposes); and that the Discharger, their agents, employees and successors shall comply with the following Monitoring and Reporting Program (MRP). The Discharger shall not implement any changes until a revised MRP is issued by the Central Valley Water Board or its Executive Officer.

A. General Provisions

1. Incorporation of Standard Provisions

The Discharger shall comply with all relevant provisions of the *Standard Provisions and Reporting Requirements for Nonhazardous Solid Waste Discharges Regulated by Subtitle D and/or Title 27 Municipal Solid Waste Facilities, December 2015 Edition* (SPRRs or Standard Provisions), which are incorporated herein. See, e.g., SPRRs section I (*Standard Monitoring Specifications*) and section J (*Response to Release*).

2. Monitoring Provisions in WDRs Order

The Discharger shall comply with all “Monitoring Provisions” in the Facility’s operative Title 27 WDRs Order, which are also incorporated herein.

3. Compliance with Title 27

The Discharger shall comply with all of Title 27 provisions as they pertain to activities described in this MRP (including SPRRs).

4. Sample Collection and Analysis Plan (SCAP)

All samples shall be collected, preserved and transported in accordance with the approved Sample Collection and Analysis Plans (2010 / 2017 SAP) and the Quality Assurance/Quality Control (QA/QC) standards specified therein [Standard Monitoring Specification I.7]. The Discharger may use alternative analytical test methods (including new USEPA-approved methods), provided that the alternative methods have method detection limits (MDLs) equal to or lower than the analytical methods specified in this MRP and are identified in the approved 2010 / 2017 SAP.

B. Detection Monitoring Program (DMP)

To detect a release at the earliest possible time (see Title 27, § 20420, subd. (b)), the Discharger shall implement a Detection Monitoring Program (DMP) for groundwater, surface water and the unsaturated zone in accordance with the provisions of Title 27, particularly §§ 20415 and 20420. Groundwater, unsaturated zone and surface water¹ detection monitoring networks shall be revised (as needed) with the construction of each new landfill cell or module.

1. Groundwater

¹ I.e., to the extent that surface water detection monitoring is required under this Order.

a. Required Network

The Facility’s groundwater monitoring well network consists of the wells listed in **Table 1**.² As of the date of this Order, the network meets the requirements of Title 27. (Title 27, § 20415, subd. (b).)

Table 1—Groundwater Monitoring Network

Well	Program	Monitored Unit(s)	Point of Compliance (WQPS)	Water-Bearing Zone	Status
Sump L-1	Corrective Action	WMU I	Yes	Shallow	Operational
MW-1	Detection	WMU I	No	Shallow	Operational
MW-3A	Corrective Action	WMU I	Yes	Shallow	Operational
MW-3B	Corrective Action	WMU I	Yes	Shallow	Operational
MW-4A	Detection	WMU II / III	Yes	Shallow	Operational
MW-5	Detection	WMU II / III	Yes	Shallow	Operational
MW-5S	Detection	WMU II / III	Yes	Shallow	Operational
MW-7	Corrective Action	WMU I	No	Shallow	Operational
MW-9	Background	All WMUs	No	Shallow	Operational
MW-10	Corrective Action	WMU I	Yes	Shallow	Operational
MW-11	Detection	WMU I	Yes	Shallow	Operational

² Non-background monitoring wells at the Point of Compliance constitute “Monitoring Points” for purposes of the Water Quality Protection Standard (WQPS).

Well	Program	Monitored Unit(s)	Point of Compliance (WQPS)	Water-Bearing Zone	Status
MW-13	Detection	WMU I	No	Shallow	Operational
MW-14	Background	All WMUs	No	Shallow	Operational
MW-15	Detection	WMU II / III	Yes	Shallow	Operational
MW-16	Detection	WMU II / III	Yes	Shallow	Operational
MW-20	Other		No	Perched	Operational
MW-21	Detection	Surface Impoundment	Yes	Shallow	Operational

See Glossary for definitions of terms and abbreviations in table.

b. Sample Collection and Analysis

Groundwater samples shall be collected from each well and analyzed for Monitoring Parameters listed in **Table 2** (Physical Parameters) and **Table 3** (Constituent Parameters), in accordance with the specified schedule for each parameter. (Title 27, § 20420, subs. (e)-(f).)

Table 2—Groundwater Detection Monitoring, Physical Parameters

Physical Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
Temperature	TEMP	°F	Semiannual	Semiannual
Electrical Conductivity	SC	µmhos/cm	Semiannual	Semiannual
pH	PH	pH Units	Semiannual	Semiannual
Turbidity	TURB	NTUs	Semiannual	Semiannual

See Glossary for definitions of terms and abbreviations in table.

Table 3—Groundwater Detection Monitoring, Constituent Parameters

Constituent Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
TDS	TDS	mg/L	Semiannual	Semiannual
Chloride	CL	mg/L	Semiannual	Semiannual
Carbonate	CACO3	mg/L	Semiannual	Semiannual
Bicarbonate	BICACO3	mg/L	Semiannual	Semiannual
Sulfate	SO4	mg/L	Semiannual	Semiannual
Calcium	CA	mg/L	Semiannual	Semiannual
Magnesium	MG	mg/L	Semiannual	Semiannual
Potassium	K	mg/L	Semiannual	Semiannual
Sodium	NA	mg/L	Semiannual	Semiannual
Short List VOCs (Attachment A)	(various)	µg/L	Semiannual	Semiannual
1,2,3-Trichloropropane per Method SRL-524M-TCP	TCPR123	µg/L	Every 5 Years	Semiannual

See Glossary for definitions of terms and abbreviations in table.

c. Five-Year COCs

The Discharger shall analyze for groundwater samples from each well for the Five-Year Constituents of Concern (Five-Year COCs) listed in **Table 4**. Five-Year COCs were last monitored in 2021, and shall be analyzed again in 2026. (Title 27, § 20420, subd. (g).)

Table 4—Groundwater Detection Monitoring, Five-Year COCs

Five-Year Constituent	GeoTracker Code	Units	Sampling & Reporting Freq.
Total Organic Carbon	TOC	mg/L	Every 5 Years

Five-Year Constituent	GeoTracker Code	Units	Sampling & Reporting Freq.
Dissolved Inorganics (Attachment B)	(various)	µg/L	Every 5 Years
Extended List VOCs (Attachment C)	(various)	µg/L	Every 5 Years
Semi-Volatile Organic Compounds (Attachment D)	(various)	µg/L	Every 5 Years
Chlorophenoxy Herbicides (Attachment E)	(various)	µg/L	Every 5 Years
Organophosphorus Compounds (Attachment F)	(various)	µg/L	Every 5 Years

See Glossary for definitions of terms and abbreviations in table.

d. Groundwater Conditions

Each quarter, the Discharger shall monitor the Groundwater Conditions specified in **Table 5**, with the result of such monitoring being reported semiannually per **Section 0**.³ (Title 27, § 20415, subd. (b)(1).)

Table 5—Groundwater Detection Monitoring, Groundwater Conditions

Groundwater Condition	GeoTracker Code	Monitoring Freq.	Reporting Freq.
Elevation (Well-Specific)	ELEV	Quarterly	Semiannually
Gradient	(none)	Quarterly	Semiannually

³ To the extent feasible, this information shall be determined separately for: (1) the uppermost aquifer; (2) any zones of perched water; and (3) any additional zone of saturation monitored based upon water level elevations taken prior to the collection of the water quality data submitted in the report. (Title 27, § 20415, subd. (e)(15).)

Groundwater Condition	GeoTracker Code	Monitoring Freq.	Reporting Freq.
Flow Rate	(none)	Quarterly	Semiannually

2. Unsaturated Zone

a. Required Network

The Facility’s unsaturated zone monitoring network consists of the lysimeter (LYS) and landfill gas (LFG) monitoring points specified in **Table 6**. As of the date of this Order, the network meets the requirements of Title 27. (Title 27, § 20415, subd. (d).)

Table 6—Unsaturated Zone & Landfill Gas Monitoring Network

Monitoring Point	Device Type	Program	Monitored Unit(s)	Status
VZ-1	Suction Lysimeter	Detection	WMU II / III	Operational
VZ-4	Suction Lysimeter	Detection	WMU II / III	Operational
VZ-5	Suction Lysimeter	Detection	WMU II / III	Operational
VZ-9	Suction Lysimeter	Detection	WMU II / III	Operational
VZ-10	Suction Lysimeter	Detection	WMU II / III	Operational
VZ-12	Suction Lysimeter	Detection	WMU II / III	Operational
PZ-1	Suction Lysimeter	Detection	Surface Impoundment	Operational
PZ-2	Suction Lysimeter	Detection	Surface Impoundment	Operational
GP-1	Gas Probe	Detection	WMU I	Operational
GP-2	Gas Probe	Detection	WMU I	Operational
GP-3	Gas Probe	Detection	WMU II / III	Operational

Monitoring Point	Device Type	Program	Monitored Unit(s)	Status
GP-4	Gas Probe	Detection	WMU II / III	Operational
GP-5	Gas Probe	Detection	WMU II / III	Operational
GP-6	Gas Probe	Detection	WMU I	Operational
GP-7	Gas Probe	Detection	WMU I	Operational
GP-8	Gas Probe	Corrective Action	WMU I	Operational
GP-9	Gas Probe	Corrective Action	WMU I	Operational
GP-10	Gas Probe	Corrective Action	WMU I	Operational
GP-11S	Gas Probe	Corrective Action	WMU I	Operational
GP-11D	Gas Probe	Corrective Action	WMU I	Operational

See Glossary for definitions of terms and abbreviations in table.

b. Soil Pore Gas (SPG) Monitoring

Soil Pore Gas (SPG) shall be monitored for Methane and Method TO-15 VOCs⁴ in accordance with **Table 7**, provided that samples may be prescreened to determine if such analyses will be required.⁵ (Title 27, § 20420, subds. (e)-(f).)

⁴ Volatile Organic Compounds associated with USEPA Method TO-15.

⁵ A gas analyzer for methane concentrations or a Photo Ionization Detector (PID) for total VOCs concentrations may be used. If methane concentrations exceed 1 percent by volume OR organic vapors (total VOCs) exceed 1 ppm, a gas sample shall be obtained and analyzed for VOCs using Method TO-15. Both the screening results and lab

**Table 7—Unsaturated Zone Detection Monitoring (Soil Pore Gas),
 Constituent Parameters**

Constituent Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
Method TO-15 VOCs	(various)	µg/cm ³	Annual	Annual
Methane	CH4	%	Semiannual	Semiannual

See Glossary for definitions of terms and abbreviations in table.

c. Monthly Lysimeter Inspection

Lysimeters shall be inspected monthly for the presence of liquid, which shall then be analyzed for the Monitoring Parameters in **Table 8** (Physical Parameters) and **Table 9** (Constituent Parameters). (Title 27, § 20420, subs. (e)-(f).) If liquid is detected in a previously dry pan lysimeter, the Discharger shall notify Central Valley Water Board staff within seven days of the detection.

**Table 8—Unsaturated Zone Detection Monitoring (Lysimeters),
 Physical Parameters**

Physical Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
Electrical Conductivity	SC	µmhos/cm	Semiannual	Semiannual
pH	PH	pH Units	Semiannual	Semiannual
Volume of Removed Liquid	(none)	Gallons	Monthly	Semiannual

See Glossary for definitions of terms and abbreviations in table.

analysis results shall be reported. Otherwise, the methane or total VOC screening results shall be reported, and no further lab analysis will be required.

**Table 9—Unsaturated Zone Detection Monitoring (Lysimeters),
 Constituent Parameters**

Constituent Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
TDS	TDS	mg/L	Semiannual	Semiannual
Chloride	CL	mg/L	Semiannual	Semiannual
Carbonate	CACO3	mg/L	Semiannual	Semiannual
Bicarbonate	BICACO3	mg/L	Semiannual	Semiannually
Sulfate	SO4	mg/L	Semiannual	Semiannual
Calcium	CA	mg/L	Semiannual	Semiannual
Magnesium	MG	mg/L	Semiannual	Semiannual
Potassium	K	mg/L	Semiannual	Semiannual
Sodium	NA	mg/L	Semiannual	Semiannual
Short List VOCs (Attachment A)	(various)	µg/L	Semiannual	Semiannual
1,2,3-Trichloropropane per Method SRL-524M-TCP	TCPR123	µg/L	Every 5 Years	Semiannual

See Glossary for definitions of terms and abbreviations in table.

d. Five-Year COCs

Every five years, liquid from each lysimeter shall be analyzed for the Five-Year COCs listed below in **Table 10**. Five-Year COCs were last monitored in 2021, and shall be analyzed again in 2026. (Title 27, § 20420, subd. (g).)

**Table 10—Unsaturated Zone Detection Monitoring (Lysimeter),
 Five-Year COCs**

Five-Year Constituent	GeoTracker Code	Units	Sampling & Reporting Freq.
Total Organic Carbon	TOC	mg/L	Every 5 Years

Five-Year Constituent	GeoTracker Code	Units	Sampling & Reporting Freq.
Dissolved Inorganics (Attachment B)	(various)	µg/L	Every 5 Years
Extended List VOCs (Attachment C)	(various)	µg/L	Every 5 Years
Semi-Volatile Organic Compounds (Attachment D)	(various)	µg/L	Every 5 Years
Chlorophenoxy Herbicides (Attachment E)	(various)	µg/L	Every 5 Years
Organophosphorus Compounds (Attachment F)	(various)	µg/L	Every 5 Years

See Glossary for definitions of terms and abbreviations in table.

3. Surface Water

The Discharger diverts the majority of surface water drainage to an unlined runoff holding pond near the southern property boundary. This runoff holding pond has a total capacity of approximately nine acre-feet (2.93 million gallons). Overflow from the runoff holding pond drains to Jackson Creek. Jackson Creek is tributary to Dry Creek which enters Delta Waterways Boundary prior to discharge to the Mokelumne River which may be affected by a release. (See Title 27, § 20415, subd. (c)(1).)

a. Required Network

The Facility's surface water monitoring network consists of the monitoring points listed in **Table 11**. As of the date of this Order, the network meets the requirements of Title 27. (See § 20415, subd. (c).)

Table 11—Surface Water Detection Monitoring Network

Monitoring Point	Location
S-1	Downstream of Phase I landfill WMU, and located west of Phase I at east side of the Buena Vista Road culvert
S-2	Downstream of Phase II and III landfill WMUs and located south of Phase III at the entrance to the runoff pond
S-3	Background sample located in the intermittent stream bed in the northeast part of the landfill property

See Glossary for definitions of terms and abbreviations in table.

b. Sample Collection and Analysis

When surface water is present at monitoring points in **Table 11** at any point during the monitoring period, samples shall be collected from each monitoring point and analyzed for the Monitoring Parameters in **Table 12** (Physical Parameters) and **Table 13** (Constituent Parameters), in accordance with the specified schedule. (Title 27, § 20420, subds. (e)-(f).)

Table 12—Surface Water Detection Monitoring, Physical Parameters

Physical Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
Electrical Conductivity	SC	µmhos/cm	Semiannual	Semiannual
pH	PH	Std. Units	Semiannual	Semiannual
Turbidity	TURB	NTUs	Semiannual	Semiannual
Hardness	HARD	mg / L (asCaCO3)	Semiannual	Semiannual
Presence of Oil & Grease	(none)	Yes / No	Semiannual	Semiannual
Flow to Surface Waters at Time of Sampling	(none)	Yes/No	Semiannual	Semiannual

See Glossary for definitions of terms and abbreviations in table.

**Table 13—Surface Water Detection Monitoring,
 Constituent Parameters**

Constituent Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
TSS	TSS	mg/L	Semiannual	Semiannual
Chloride	CL	mg/L	Semiannual	Semiannual
Carbonate	CACO3	mg/L	Semiannual	Semiannual
Bicarbonate	BICACO3	mg/L	Semiannual	Semiannual
Nitrate as Nitrogen	NO3N	mg/L	Semiannual	Semiannual
Sulfate	SO4	mg/L	Semiannual	Semiannual
Calcium	CA	mg/L	Semiannual	Semiannual
Magnesium	MG	mg/L	Semiannual	Semiannual
Potassium	K	mg/L	Semiannual	Semiannual
Sodium	NA	mg/L	Semiannual	Semiannual
Short List VOCs (Attachment A)	(various)	µg/L	Semiannual	Semiannual
1,2,3-Trichloropropane per Method SRL-524M-TCP	TCPR123	µg/L	Every 5 Years	Semiannual

See Glossary for definitions of terms and abbreviations in table.

c. Five-Year COCs

The Discharger shall analyze surface water samples for the Five-Year COCs listed in **Table 14** Five-Year COCs were last monitored in 2021, and shall be analyzed again in 2026. (Title 27, § 20420, subd. (g).)

Table 14—Surface Water Detection Monitoring, Five-Year COCs

Five-Year Constituent	GeoTracker Code	Units	Sampling & Reporting Freq.
Total Organic Carbon	TOC	mg/L	Every 5 Years
Dissolved Inorganics (Attachment B)	(various)	µg/L	Every 5 Years
Extended List VOCs (Attachment C)	(various)	µg/L	Every 5 Years
Semi-Volatile Organic Compounds (Attachment D)	(various)	µg/L	Every 5 Years
Chlorophenoxy Herbicides (Attachment E)	(various)	µg/L	Every 5 Years
Organophosphorus Compounds (Attachment F)	(various)	µg/L	Every 5 Years

See Glossary for definitions of terms and abbreviations in table.

4. Class II Surface Impoundment Liquids

Three months after commencement of discharge of liquid wastes to the replaced and expanded Class II surface impoundment, the Discharger shall collect and analyze class II surface impoundment liquids to characterize the liquids stored in the class II surface impoundment for the constituents identified in **Table 2**, **Table 3**, and **Table 4** (Title 27, § 20420(g)). The Discharger shall evaluate the potential risk of water quality degradation associated with each constituent in the event of an unauthorized release (Title 27, § 20420(c)) and verify the liquid wastes are compatible with containment features of the class II surface impoundment. (Title 27, §§ 20200(c), 20320(e)). The Discharger shall repeat sample collection and analysis once every five years.

5. Summary of Water Quality Protection Standard (WQPS) Components

The Water Quality Protection Standard (WQPS) is the Title 27 analytical framework through which an individual WMU is monitored for releases and impacts to water quality, i.e., the Detection Monitoring Program (DMP).

(See Title 27, § 20390, subd. (a).) As explained in further detail below, for the duration of the Compliance Period, the Monitoring Points situated at a WMU's Point of Compliance are sampled and analyzed for Monitoring Parameters indicative of a release. If concentrations of Constituents of Concern exceed Concentration Limits, the results are confirmed through Retesting Procedures.

a. Compliance Period

The "compliance period" is the minimum time for which a water quality monitoring will be required—i.e., equal to the sum of active years and the closure period. (Title 27, § 20410.) The period restarts each time an Evaluation Monitoring Program (EMP) is initiated for a given WMU. (Id., §§ 20410(a), 20415, 20425.) If a WMU is in corrective action, the period continues until it is demonstrated that the WMU has been in continuous compliance with its WQPS for at least three years. (Id., § 20410, subd. (c).)

b. Monitoring Points

For WQPS purposes, a "monitoring point" is any well, device, or location where monitoring is conducted, and is specified in the Facility's WDRs and subject to the WQPS. (Title 27, § 20164.) Monitoring Points are listed in **Section 0** (Detection Monitoring Program)—specifically **Table 1** (Groundwater), **Table 6** (Unsaturated Zone) and **Table 11** (Surface Water).

c. Point of Compliance (POC)

The Point of Compliance (POC) is a vertical plane at the WMU's hydraulically downgradient limit, extending through the uppermost underlying aquifer. (Title 27, §§ 10164, 20405(a).) The Facility's POC monitoring wells are listed below in **Table 1**.

d. Constituents of Concern (COCs)

Constituents of Concern (COCs) are waste constituents, reaction products, and hazardous constituents that are reasonably expected to be in or derived from waste contained in a WMU. (Title 27, §§ 20164, 20395.)

e. Monitoring Parameters

Monitoring Parameters are a predetermined set of COCs and measurable physical characteristics (e.g., temp., electrical conductivity, pH), which serve as reliable indicators of a WMU release, and for which samples will therefore be routinely analyzed. (Title 27, §§ 20164, 20395(a), 20420(e)-(f).) For the purposes of this MRP, the Monitoring Parameters are:

- i. For **Surface Water**, those in **Table 12** and **Table 13**;
- ii. For **Groundwater**, those in **Table 2** and **Table 3**; and
- iii. For the Unsaturated Zone, those in **Table 7**, **Table 8** and **Table 9**.

f. Five-Year COCs

In addition to the Monitoring Parameters described above, this Order requires the quinquennial analysis of samples for a larger range of constituents that are reasonably expected to be found in, or derived from, the waste contained within each unit at the Facility. (Title 27, §§ 20395, 20420(g).) Analytical results for Five-Year COCs were last submitted to the Central Valley Water Board as part of the 2021 Annual Monitoring Report and are due again in 2026. For the purposes of this MRP, the Five-Year COCs are listed in:

- i. **Attachment B** (*Dissolved Inorganics*);
- ii. **Attachment C** (*Extended List VOCs*);
- iii. **Attachment D** (*Semi-Volatile Organic Compounds*);
- iv. **Attachment E** (*Chlorophenoxy Herbicides*);
- v. **Attachment F** (*Organophosphorus Compounds*); and
- vi. Any other COCs listed in **Table 14** (*Surface Water*), **Table 4** (*Groundwater*) and **Table 10** (*Unsaturated Zone*)

g. Concentration Limits

The Concentration Limit for each COC is the “background concentration,” as determined by the statistical methods outlined in subdivision (e)(8) of Title 27, § 20415.⁶ (Title 27, § 20400, subds. (a), (b).) Methods for calculating Concentration Limits were proposed in the 15 August 2017 WQPS Report. The approved methods use Shewhart-CUMSUM Control Charts for calculating intrawell concentration limits for inorganic constituents. The concentration limit for all non-naturally occurring waste constituents including all volatile organic constituents is non-detect.

Concentration Limits shall be proposed and/or updated by the Discharger on an biannual basis (i.e., once every two years), in the Annual Monitoring Report (AMR) submitted per **Section 0** here.

Unless expressly rejected by the Executive Officer in writing, these Concentration Limits shall be incorporated as part of this Order. Several notable Concentration Limits, as set forth in the First Semi Annual 2021 Report, are set forth below in **Table 15**.⁷

If the Discharger fails to submit periodically updated concentration limits, as provided in this MRP, the existing concentration limits shall remain operative, provided that, where appropriate, the Executive Officer may revert to lower concentrations where warranted based on existing monitoring data.

⁶ Concentration Limits are initially proposed by the Discharger, then reviewed and approved by the Central Valley Water Board (subject to any necessary revisions). The limits specified herein are approved and incorporated as part of the Facility’s WDRs.

⁷ The Concentration Limits set forth in **Table 15** is only a partial list of values that are provided for general informational purposes only. These limits shall be superseded once updated values are submitted.

Table 15—Notable Concentration Limits, 1SA 2021 Annual Report (WQPS)

Well	Analysis	Chloride (mg/L)	Nitrate as N (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)
L-1	Intra	175	1.24	84	495	<5	165	16	13	15.1	115
MW-1	Intra	52	3.07	67	277	<5	<5	4	2	1.2	46
MW-10	Intra	106	<5	53	490	<5	<5	8	8	1.9	23
MW-11	Intra	51	29.03	62	243	<5	<5	11	3	1.4	39
MW-13	Intra	31	<5	108	466	<5	<5	13	7	2.3	25
MW-14	Intra	6	1.13	26	229	<5	<5	9	4	4.0	7
MW-15	Intra	45	<5	107	293	<5	<5	8	10	4.4	29
MW-16	Intra	48	<5	99	364	<5	147	58	29	9.1	32
MW-20	Intra	13	1.60	16	223	<5	<5	13	2	2.7	7
MW-21	Intra	10	1.36	54	222	<5	<5	12	2	2.8	5
MW-3A	Intra	81	<5	290	618	<5	189	34	22	7.1	56
MW-3B	Intra	26	<5	66	357	<5	<5	8	5	3.0	17
MW-4A	Intra	79	<5	224	525	<5	<5	18	12	9.5	53
MW-5	Intra	20	<5	80	251	<5	<5	10	7	1.8	14
MW-5S	Intra	290	0.42	709	1522	<5	<5	37	42	6.0	231
MW-7	Intra	48	1.12	67	517	<5	<5	13	5	3.5	16
MW-9	Intra	25	<5	35	226	<5	<5	8	2	1.8	16

See Glossary for definitions of terms and abbreviations in table.

h. Retesting Procedures

If monitoring results indicate measurably significant evidence of a release, as described in Section I.45 of the SPRRs (Standard Monitoring Specifications), the Discharger shall apply the following:

- vii. **Non-Statistical Retesting Procedures (SPRRs, § I.46)** for analytes detected in less than 10 percent of background samples (e.g., non-naturally occurring COCs); and
- viii. **Statistical Retesting Procedures (SPRRs, § I.46)** for analytes detected in at least 10 percent of background samples (e.g., naturally occurring COCs).

C. Corrective Action Monitoring Program (CAMP)

To demonstrate the effectiveness of ongoing correction action at the Facility, the Discharger shall perform the following additional monitoring in accordance with of subdivision (d) of Title 27, § 20430.

1. Groundwater Corrective Action

Corrective action monitoring wells for shall be sampled for the parameters / constituents identified in **Table 2** (Field Parameters), **Table 3** (Monitoring Parameters), and **Table 4** (Five-Year COCs).

2. Unsaturated Zone Corrective Action

Unsaturated zone corrective action monitoring points shall be sampled for the parameters / constituents identified in **Table 8** (Field Parameters) and **Table 9** (Monitoring Parameters), and **Table 10** (Five-Year COCs).

3. Groundwater Extraction Well System

The Facility's current network of corrective action extraction wells is summarized in **Table 16**. Extracted LFG reports to a flare station in the LFG control system for combustion. Leachate pumped from the extraction wells and LFG condensate are discharged to the Class II surface impoundment.

Table 16—Groundwater Corrective Action, Extraction Well Network

Well	Zone	Monitored Unit
P1-1	Leachate Only	WMU I
P1-2	Dual Phase Leachate / Gas	WMU I
P1-3	Dual Phase Leachate / Gas	WMU I
P1-4	Dual Phase Leachate / Gas	WMU I
P1-5	Dual Phase Leachate / Gas	WMU I
P1-6	Dual Phase Leachate / Gas	WMU I
P1-7	Dual Phase Leachate / Gas	WMU I
P1-8	Dual Phase Leachate / Gas	WMU I
P1-9	Dual Phase Leachate / Gas	WMU I
P1-10	Leachate Only	WMU I
P1-11	Dual Phase Leachate / Gas	WMU I
P2-1	Gas	WMU II / III
P2-2	Gas	WMU II / III
P2-3	Gas	WMU II / III
P2-4	Gas	WMU II / III
P2-5	Gas	WMU II / III
P2-6	Gas	WMU II / III
P2-7	Gas	WMU II / III
P2-8	Gas	WMU II / III
P2-9	Gas	WMU II / III
P2-10	Gas	WMU II / III

Well	Zone	Monitored Unit
P2-11	Gas	WMU II / III
P2-12	Gas	WMU II / III
P2-13	Gas	WMU II / III

See Glossary for definitions of terms and abbreviations in table.

4. Landfill Gas Corrective Action

The Facility’s landfill gas (LFG) corrective action system currently consists of **the dual phase extraction wells described in Table 16 and gas probes**. The Discharger shall log all system shutdowns (including causes and stop/start dates), monthly downtime and monthly runtime. All shutdowns, regardless of the type of restart, shall be recorded. This information shall be reported semiannually per **Section E.1**. Additionally, system performance shall be monitored in accordance with **Table 17**.

Table 17—Landfill Gas Corrective Action Monitoring, Control System Performance

Parameter	Units	Sampling Freq.	Reporting Freq.
Control System Runtime	Hours	N/A	Semiannual
Control System Downtime	%	N/A	Semiannual
Temperature into Plant	°F	Quarterly	Semiannual
Flare Combustion Temperature	°F	Quarterly	Semiannual
System Vacuum	mm Hg vacuum	Quarterly	Semiannual
Totalized Flow into Plant	ft ³	Quarterly	Semiannual
Totalized Flow Rate into Plant	ft ³ / min	Quarterly	Semiannual

Parameter	Units	Sampling Freq.	Reporting Freq.
VOCs per USEPA Method TO-15 in Influent	µg / cm	Semiannual	Semiannual
Methane in Influent	%	Quarterly	Semiannual

See Glossary for definitions of terms and abbreviations in table.

a. Extraction Well Field

The Facility’s network of LFG extraction wells, installed to address a release to the unsaturated zone and/or groundwater, is set forth in **Table 16**. LFG samples shall be collected from the network in **Table 16** and analyzed for the Monitoring Parameters specified in **Table 18**.

Table 18—Landfill Gas Corrective Action, Extraction Well Network Monitoring Parameters

Monitoring Parameter	Units	Sampling Freq.	Reporting Freq.
Atmospheric Temperature	°F	Quarterly	Semiannual
Atmospheric Pressure	Inches Hg	Quarterly	Semiannual
Methane	% by Vol.	Quarterly	Semiannual
Carbon Dioxide	% by Vol.	Quarterly	Semiannual
Oxygen	% by Vol.	Quarterly	Semiannual
Remainder Gas	% by Vol.	Quarterly	Semiannual
Gas Temperature at Each Well	°F	Quarterly	Semiannual
Initial Static Pressure in Wellhead	Inches Hg	Quarterly	Semiannual
Adjusted Static Pressure in Wellhead	Inches Hg	Quarterly	Semiannual

See Glossary for definitions of terms and abbreviations in table.

b. Probe Network

The Facility’s network of LFG probes, installed to address a release to the unsaturated zone and/or groundwater, is set forth in **Table 19**. These probes shall be monitored in accordance with the Monitoring Parameters in **Table 20**⁸.

Table 19—Landfill Gas Corrective Action, Probe Network

LFG Probe	Device Type	Zone	Monitored Unit(s)
GP-8	Gas Probe	Waste Mass	WMU I
GP-9	Gas Probe	Waste Mass	WMU I
GP-10	Gas Probe	Waste Mass	WMU I
GP-11S	Gas Probe	Waste Mass	WMU I
GP-11D	Gas Probe	Waste Mass	WMU I

Table 20—Landfill Gas Corrective Action, Probe Network Monitoring Parameters

Parameter	Units	Sampling Freq.	Reporting Freq.
Atmospheric Temperature	°F	Quarterly	Semiannual
Atmospheric Pressure	Inches Hg	Quarterly	Semiannual
Methane	% by Vol.	Quarterly	Semiannual

⁸ A gas analyzer for methane concentrations or a Photo Ionization Detector (PID) for total VOCs concentrations may be used. If methane concentrations exceed 1 percent by volume OR organic vapors (total VOCs) exceed 1 ppm, a gas sample shall be obtained and analyzed for VOCs using Method TO-15. Both the screening results and lab analysis results shall be reported. Otherwise, the methane or total VOC screening results shall be reported, and no further lab analysis will be required.

Parameter	Units	Sampling Freq.	Reporting Freq.
Carbon Dioxide	% by Vol.	Quarterly	Semiannual
Oxygen	% by Vol.	Quarterly	Semiannual
Remainder Gas	% by Vol.	Quarterly	Semiannual
Probe Pressure / Vacuum	Inches Hg	Quarterly	Semiannual
Volatile Organic Compounds per USEPA Method TO-15	µg / cm	Semiannual	Semiannual

See Glossary for definitions of terms and abbreviations in table.

D. Additional Facility Monitoring

1. Leachate Collection & Removal System (LCRS)

The Discharger shall operate and maintain the leachate collection and removal system (LCRS) sumps and conduct monitoring of any detected leachate seeps in accordance with Title 27 and the following provisions.

a. Annual LCRS Testing

All Leachate Collection and Removal Systems (LCRS) shall be tested annually to demonstrate proper operation, with the results of each test being compared to the results of prior testing. (See Title 27, § 20340, subd. (d).)

b. Monthly Sump Inspection

The LCRS sump shall be inspected monthly for the presence of leachate. As provided in **Table 21**, the total flow and flow rate for leachate in each sump shall be recorded after each inspection and reported semiannually per **Section E.1**.

Table 21—LCRS Sump Monitoring, Monthly Inspection Parameters

Physical Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
Total Flow	(none)	Gallons	Monthly	Semiannually

Physical Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
Flow Rate	FLOW	Gallons/Day	Monthly	Semiannually

See Glossary for definitions of terms and abbreviations in table.

c. First Detection of Leachate in Sump

Upon detecting leachate in a previously dry sump, the Discharger shall notify Central Valley Water Board staff within seven days, and immediately sample and analyze leachate for the parameters in **Table 22**.⁹ Thereafter, whenever leachate is present in the same sump, the leachate shall be sampled and analyzed for the same parameters, and in accordance with the specified sampling and reporting schedule in **Table 22**.

Table 22—LCRS Sump Monitoring, Parameters for Subsequent Monitoring

Constituent Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
Electrical Conductivity	SC	µmhos/cm	Semiannually	Semiannually
pH	PH	pH Units	Semiannually	Semiannually
TDS	TDS	mg/L	Semiannually	Semiannually
Chloride	CL	mg/L	Semiannually	Semiannually
Carbonate	CACO3	mg/L	Semiannually	Semiannually
Bicarbonate	BICACO3	mg/L	Semiannually	Semiannually

⁹ The sampling and reporting schedules in **Table 22** are applicable for subsequent monitoring only. When notifying Central Valley Water Board staff of the first detection of leachate, the Discharger shall indicate when laboratory results are expected to be available.

Constituent Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
Nitrate (as Nitrogen)	NO3N	mg/L	Quarterly	Semiannually
Sulfate	SO4	mg/L	Semiannually	Semiannually
Calcium	CA	mg/L	Semiannually	Semiannually
Magnesium	MG	mg/L	Semiannually	Semiannually
Potassium	K	mg/L	Semiannually	Semiannually
Sodium	NA	mg/L	Semiannually	Semiannually
Short List VOCs (Attachment A)	(various)	µg/L	Semiannually	Semiannually
1,2,3-Trichloropropane per Method SRL-524M-TCP	TCPR123	µg/L	Every 5 Years	Semiannually

See Glossary for definitions of terms and abbreviations in table.

d. Five-Year COCs

At least once every five years, the Discharger shall sample and analyze any leachate present in the sump for the Five-Year COCs listed in **Table 23**.

Table 23—LCRS Sump Monitoring, Five-Year COCs

Parameter	GeoTracker Code	Units	Sampling & Reporting Freq.
Total Organic Carbon	TOC	mg/L	Every 5 Years
Dissolved Inorganics (Attachment B)	(various)	µg/L	Every 5 Years
Extended List VOCs (Attachment C)	(various)	µg/L	Every 5 Years

Parameter	GeoTracker Code	Units	Sampling & Reporting Freq.
Semi-Volatile Organic Compounds (Attachment D)	(various)	µg/L	Every 5 Years
Chlorophenoxy Herbicides (Attachment E)	(various)	µg/L	Every 5 Years
Organophosphorus Compounds (Attachment F)	(various)	µg/L	Every 5 Years

See Glossary for definitions of terms and abbreviations in table.

2. Leachate Seepage

Leachate that seeps to the surface from any landfill WMU shall, immediately upon detection, be sampled and analyzed for the Monitoring Parameters in **Table 24** (Physical Parameters) and **Table 25** (Constituent Parameters). See **Section E.3** for Reporting Requirements.) In the event of a reported leachate seep, Central Valley Water Board staff may direct additional sampling and analysis pursuant to Water Code § 13267, subdivision (b)(1).

Table 24—Leachate Seep Monitoring, Physical Parameters

Physical Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
Total Flow	(none)	Gallons	Upon Detection	See MRP, § E.3
Flow Rate	FLOW	Gallons/Day	(same)	(same)
Electrical Conductivity	SC	µmhos/cm	(same)	(same)
pH	PH	pH Units	(same)	(same)

See Glossary for definitions of terms and abbreviations in table.

Table 25—Leachate Seep Monitoring, Constituent Parameters

Constituent Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
TDS	TDS	mg/L	Upon Detection	See MRP, § E.3
Chloride	CL	mg/L	(same)	(same)
Carbonate	CACO3	mg/L	(same)	(same)
Bicarbonate	BICACO3	mg/L	(same)	(same)
Nitrate as N	NO3N	mg/L	(same)	(same)
Sulfate	SO4	mg/L	(same)	(same)
Calcium	CA	mg/L	(same)	(same)
Magnesium	MG	mg/L	(same)	(same)
Potassium	K	mg/L	(same)	(same)
Sodium	NA	mg/L	(same)	(same)
Short List VOCs (Attachment A)	(various)	µg/L	(same)	(same)
1,2,3-Trichloropropane per Method SRL-524M-TCP	TCPR123	µg/L	Every 5 Years	(same)

See Glossary for definitions of terms and abbreviations in table.

3. Regular Visual Inspection

The Discharger shall perform regular visual inspections at the Facility in accordance with **Table 26** (Criteria) and **Table 27** (Schedule). Results of these regular visual inspections shall be included in Semiannual Monitoring Reports per **Section E.1**.

Table 26—Criteria for Regular Visual Inspections

Category	Criteria
Within Unit	<ul style="list-style-type: none"> Evidence of ponded water at any point on unit outside of any contact storm water/leachate diversions structures on the active face of unit (record affected areas on map). Evidence of erosion and/or of day-lighted refuse.
Unit Perimeter	<ul style="list-style-type: none"> Evidence of leachate seep. Estimated size of affected area (record on map) and flow rate. Evidence of erosion and/or of day-lighted refuse.
Receiving Waters	<ul style="list-style-type: none"> Floating and suspended materials of waste origin—presence or absence, source and size of affected areas. Discoloration and turbidity—description of color, source and size of affected areas.

Table 27—Regular Visual Inspection Schedule

Category	Wet Season (1 Oct. to 30 April)	Dry Season (1 May to 30 Sept.)
Active Units	Weekly	Monthly
Inactive or Closed Units	Monthly	Quarterly

4. Annual Facility Inspections

Prior to 30 September of each year, the Discharger shall inspect the Facility to assess repair and maintenance needs for drainage control systems, cover systems and groundwater monitoring wells; and preparedness for winter conditions (e.g., erosion and sedimentation control). If repairs are made as result of the annual inspection, problem areas shall be photographed before and after repairs. Any necessary construction, maintenance, or repairs shall be completed by 31 October. See **Section E.4** for Reporting Requirements.

5. Major Storm Events

Within seven days of any storm event capable of causing damage or significant erosion (Major Storm Event), the Discharger shall inspect the Facility for damage to any precipitation, diversion and drainage facilities, and all landfill side slopes. Necessary repairs shall be completed within 30 days of the inspection. The Discharger shall take photos of any problem areas before and after repairs. See **Section E.5** for Reporting Requirements.

6. Five-Year Iso-Settlement Surveys (Closed Landfills)

Every five years, the Discharger shall conduct an iso-settlement survey of each closed landfill unit and produce an iso-settlement map accurately depicting the estimated total change in elevation of each portion of the final cover’s low-hydraulic-conductivity layer. For each portion of the landfill, this map shall show the total lowering of the surface elevation of the final cover, relative to the baseline topographic map. (Title 27, § 21090, subd. (e)(1)-(2).) See **Section E.6** for Reporting Requirements.

E. Reporting Requirements

Table 28—Summary of Required Reports

Section	Report	Deadline
§ 0	Semiannual Monitoring Reports (SMRs)	1 August (1 January to 30 June) 1 February (1 July to 31 December)
§ 0	Annual Monitoring Reports (AMRs)	1 February
§ E.3	Leachate Seep Reporting	Immediately upon Discovery of Seepage (<i>staff notification</i>) Within 7 Days (<i>written report</i>)
§ 0	Annual Facility Inspection Reports	15 November

Section	Report	Deadline
§ 0	Major Storm Reporting	Immediately after Damage Discovery (<i>staff notification</i>) Within 14 Days of Completing Repairs (<i>written report, photos</i>)
§ 0	Survey and Iso-Settlement Mapping	Every Five Years (Next Due 1 September 2023)
§ 0	Financial Assurances Reports	1 June
§ 0	Water Quality Protection Standard Reports	Proposed Revisions (excluding Concentration Limits)

1. Semiannual Monitoring Reports (SMRs)

The Discharger shall submit Semiannual Monitoring Reports (SMRs) on 1 August (1 Jan. to 30 June) and 1 February (1 July to 31 Dec.). SMRs shall contain the following materials and information:

- a. A statement affirming that all sampling activities referenced in the report were conducted in accordance with the approved SCAP (see § A.4).
- b. Map(s)/aerial photograph(s) depicting locations of all observation stations, monitoring points referenced in the report.
- c. In tabulated format, all monitoring data required to be reported on a semiannual basis, including Groundwater Conditions and Monitoring Parameters. (See **Section E.9.b** for additional requirements.)
- d. For each groundwater monitoring point referenced in the SMR:
 - i. The times each water level measurement was taken;
 - ii. The type of pump or other device used to purge and elevate pump intake level relative to screening interval;

- iii. The purging methods used to stabilize water in the well bore before sampling (including pumping rate);
 - iv. The equipment and methods used for monitoring pH, temperature and electrical conductivity (EC) during purging activity, and the results of such monitoring;
 - v. Methods for disposing of purged water; and
 - vi. The type of device used for sampling, if different than the one used for purging.
- e. Evaluation of concentrations for all Constituent Parameters and Five-Year COCs (when analyzed), comparison to current Concentration Limits, and results of any Retesting Procedures per **Section B.4.h**.
 - f. In the event of a verified exceedance of Concentration Limit(s), any actions taken per Section J of the SPRRs (*Response to Release*) for wells and/or constituents not already specifically addressed in Corrective Action Monitoring under this MRP.
 - g. Evaluation as to effectiveness of existing leachate monitoring and control facilities, and runoff/run-on control facilities.
 - h. For lined landfill units, a summary of any instances where leachate on the landfill liner system exceeded a depth of 30 cm (excluding the leachate sump), and information about the required notification and corrective action in Section E.13 of the SPRRs (*Standard Facility Specifications*).
 - i. Summaries of all Regular Visual Inspections conducted per **Section D3** during the reporting period.
 - j. For closed landfills, summaries of inspections, leak searches and final cover repairs conducted in accordance with an approved Post-Closure Maintenance Plan per Standard Provisions G.26-29 (*Standard Closure and Post-Closure Maintenance Specifications*).
 - k. Laboratory statements of results of all analyses evaluating compliance with the WDRs.
 - l. For any Corrective Action systems at the Facility, tabulated summaries of:

- i. Operating hours;
- ii. Monthly runtimes and downtimes; and
- iii. Shutdowns, including start/stop dates and causes.

2. Annual Monitoring Reports (AMRs)

On 1 February of each year,¹⁰ the Discharger shall submit an Annual Monitoring Report (AMR) containing following materials and information:

- a. In tabulated format, all monitoring data for which annual reporting is required under this MRP. (See **Section E.9.b** for additional requirements for monitoring reports.)
- b. Graphs of historical trends for all Monitoring Parameters and Five-Year COCs (if such analyses were performed) with respect to each monitoring point over the five prior calendar years.¹¹
- c. An evaluation of Monitoring Parameters with regard to the cation/anion balance, and graphical presentation of same in a Stiff diagram, Piper graph or Schoeller plot.
- d. All historical monitoring data for which there are detectable results, including data for the previous year, shall be submitted in tabular form in a digital file.
- e. For each groundwater well, quarterly hydrographs showing the elevation of groundwater with respect to the top and bottom of the screened interval, and the elevation of the pump intake,

¹⁰ The Annual Monitoring Report may be combined with the Semiannual Monitoring Report for 1 July through 31 December of the same year, provided that the combination is clearly indicated in the title.

¹¹ Each graph shall contain individual data points (not mean values) and be appropriately scaled to accurately depict statistically significant trends or variations in water quality.

- f. A comprehensive discussion of the Facility’s compliance record, and the result of any corrective actions taken or planned which may be needed to attain full compliance with the WDRs.
- g. For landfill units, a map showing the areas and elevations of each unit where filling was completed during the previous calendar year; comparison to final closure design contours; and projected years in which each discrete module are expected to be filled.
- h. A summary of the monitoring results, indicating any changes made or observed since the previous AMR.
- i. A discussion on the results of Annual LCRS Testing conducted in accordance with **Section D.1.a**.
- j. When required per **Section B.4.g** of this Order, periodic updates to the Concentration Limits for all Monitoring Parameters and WQPS Monitoring Points.
- k. To assess the progress of ongoing Corrective Action at the Facility, the Discharger shall estimate the following and report in the Annual Monitoring Report (including method of calculations) in the format below:

Table 29—Estimated VOC Mass Removal

Zone	Amount Removed During Year (Lbs)	Cumulative Amount Removed (Lbs)
Waste Mass		
Shallow		
Other		

3. Leachate Seep Reporting

Upon discovery of seepage from any disposal area within the Facility, the Discharger shall immediately notify the Central Valley Water Board via telephone or email; and within seven days, submit a written report with the following information:

- a. Map(s) depicting the location(s) of seepage;

- b. Estimated flow rate(s);
- c. A description of the nature of the discharge (e.g., all pertinent observations and analyses);
- d. Verification that samples have been submitted for analyses of the Monitoring Parameters in **Table 24** (*Physical Parameters*) and **Table 25** (*Constituent Parameters*), and an estimated date that the results will be submitted to the Central Valley Water Board; and
- e. Corrective measures underway or proposed, and corresponding time schedule.

4. Annual Facility Inspection Report

By 15 November, the Discharger shall submit a report with results of the Annual Facility Inspection per **Section 0**. The report shall discuss any repair measures implemented, any preparations for winter, and include photographs of any problem areas and repairs.

5. Major Storm Event Reports

Immediately following each post-storm inspection described in **Section 0**, the Discharger shall notify Central Valley Water Board staff of any damage or significant erosion (upon discovery). Subsequent repairs shall be reported to the Central Valley Water Board (together with before and after photos of the repaired areas) within 14 days of completion.

6. Survey and Iso-Settlement Map (Closed Landfill Units)

The Discharger shall submit all iso settlement maps prepared in accordance with **Section D.6**. (Title 27, § 21090, subd. (e).) The next maps are due on 1 September 2023.

7. Financial Assurances Report

By 1 August 2022, The Discharger shall prepare and submit a report regarding financial assurances and the financial assurance mechanism used to support corrective action. The Report shall include a complete Pledge of Revenue Agreement package describing types of revenue that the Discharger ensures will be available in a timely manner to pay for postclosure maintenance or corrective action and include copies of the items required in Title 27, § 22245.

By 1 June of each year, the Discharger shall submit a copy of the annual financial assurances report due to the California Department of Resources Recycling and Recovery (CalRecycle) that updates the financial assurances for closure, post-closure maintenance, and corrective action. (See WDRs Order.)

8. Water Quality Protection Standard Report

Any proposed changes¹² to the Water Quality Protection Standard (WQPS) components (§ B.4), other than periodic update of the Concentration Limits (§ B.4.g), shall be submitted in a WQPS Report for review and approval. The report shall be certified by a “Qualified Professional” (§ B), and contain the following:

- a. *Potentially Affected Waterbodies*—An identification of all distinct bodies of surface water and groundwater potentially affected by a WMU release (including, but not limited to, the uppermost aquifer and any permanent or ephemeral zones of perched groundwater underlying the Facility);
- b. *Map of Monitoring Points*—A map of all groundwater, surface water¹³ and unsaturated zone monitoring points (including all background/upgradient and Point of Compliance monitoring points);
- c. *Groundwater Movement*—An evaluation of perennial direction(s) of groundwater movement within the uppermost zone(s);
- d. *Statistical Method for Concentration Limits*—A proposed statistical method for calculating Concentration Limits for Monitoring Parameters and Five-Year COCs (see § 0) detected in at least 10 percent of the background data (naturally-occurring constituents)

¹² If subsequent sampling of the background monitoring point(s) indicates significant water quality changes due to either seasonal fluctuations or other reasons unrelated to onsite waste management activities, the Discharger may request modification of the WQPS.

¹³ To the extent that surface water monitoring is included in the Detection Monitoring Program.

using a statistical procedure from subdivisions (e)(8)(A)-(D) or (e)(8)(E) of Title 27, § 20415; and

- e. *Retesting Procedure*—A retesting procedure to confirm or deny measurably significant evidence of a release (Title 27, §§ 20415(e)(8)(E), 20420(j)(1)-(3)).

9. General Reporting Provisions

a. Transmittal Letters

Each report submitted under this MRP shall be accompanied by a Transmittal Letter providing a brief overview of the enclosed report, as well as the following:

- i. Any violations found since the last report was submitted, a description of all actions undertaken to correct the violation (referencing any previously submitted time schedules for compliance), and whether the violations were corrected; and
- ii. A statement from the submitting party, or its authorized agent, signed under penalty of perjury, certifying that, to the best of the signer's knowledge, the contents of the enclosed report are true, accurate and complete.

b. Monitoring Data and Reports

i. Electronic Submission via GeoTracker

All reports with monitoring data (e.g., SMRs and AMRs) shall be submitted electronically via the State Water Board's [Geotracker Database](https://geotracker.waterboards.ca.gov) (<https://geotracker.waterboards.ca.gov>). After uploading a report, the Discharger shall notify Central Valley Water Board staff via email at CentralVallySacramento@WaterBoards.ca.gov. The following information shall be included in the body of the email:

Attention:	Title 27 Compliance & Enforcement Unit
Report Title:	[<i>Title of Report</i>]
GeoTracker Upload ID:	[<i>Number</i>]
Facility Name:	Buena Vista Landfill

County: Amador County
CIWQS Place ID: 210700

ii. Data Presentation and Formatting

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, the concentrations, and the units are readily discernible. Additionally, data shall be summarized in a manner that clearly illustrates compliance/noncompliance with WDRs.

iii. Non-Detections / Reporting Limits

Unless the reporting limits (RL) are specified in the same table, non-detections and sub-RL concentrations shall be reported as “< [limit]” (e.g., “< 5 µg/L”).

iv. Units

Absent specific justification, all monitoring data shall be reported in the units specified herein.

c. Compliance with SPRRs

All reports submitted under this MRP shall comply with applicable provisions of the SPRRs, including those in Section I (Standard Monitoring Specifications) and Section J (Response to Release).

d. Additional Requirements for Monitoring Reports

Every monitoring report submitted under this MRP (e.g., SMRs [§ E.1], AMRs [§ E.2]) shall include a discussion of relevant field and laboratory tests, and the results of all monitoring conducted at the site shall be reported to the Central Valley Water Board in accordance with the reporting schedule above for the calendar period in which samples were taken or observations made.

F. Record Retention Requirements

The Discharger shall maintain permanent records of all monitoring information, including without limitation: calibration and maintenance records; original strip chart recordings of continuous monitoring instrumentation; copies of all reports required by this MRP; and records of all data used to complete the application for WDRs. Such records shall be legible, and show the following for each sample:

1. Sample identification and the monitoring point or background monitoring point from which it was taken, along with the identity of the individual who obtained the sample;
2. Date, time and manner of sampling;
3. Date and time that analyses were started and completed, and the name of the personnel and laboratory performing each analysis;
4. A complete list of procedures used (including method of preserving the sample, and the identity and volumes of reagents used);
5. A calculation of results; and
6. The results of all analyses, as well as the MDL and PQL for each analysis (all peaks shall be reported).

LIST OF ATTACHMENTS

Attachment A—Volatile Organic Compounds, Short List
Attachment B—Dissolved Inorganics (Five-Year COCs)
Attachment C—Volatile Organic Compounds, Extended List (Five-Year COCs)
Attachment D—Semi-Volatile Organic Compounds (Five-Year COCs)
Attachment E—Chlorophenoxy Herbicides (Five-Year COCs)
Attachment F—Organophosphorous Compounds (Five Year COCs)

ENFORCEMENT

If, in the opinion of the Executive Officer, the Discharger fail to comply with the provisions of this Order, the Executive Officer may refer this matter to the Attorney General for judicial enforcement, may issue a complaint for administrative civil liability, or may take other enforcement actions. Failure to comply with this Order may result in the assessment of Administrative Civil Liability of up to \$10,000 per violation, per day, depending on the violation, pursuant to the Water Code, including §§ 13268, 13350 and 13385. The Central Valley Water Board reserves its right to take any enforcement actions authorized by law.

ADMINISTRATIVE REVIEW

Any person aggrieved by this Central Valley Water Board action may petition the State Water Board for review in accordance with Water Code §n 13320 and California Code of Regulations, title 23, § 2050 et seq. To be timely, the petition must be received by the State Water Board by 5:00 pm on the 30th day after the date of this Order; if the 30th

day falls on a Saturday, Sunday or state holiday, the petition must be received by the State Water Board by 5:00 pm on the next business day. The law and regulations applicable to filing petitions are available on the [State Water Board website](http://www.waterboards.ca.gov/public_notices/petitions/water_quality) (http://www.waterboards.ca.gov/public_notices/petitions/water_quality). Copies will also be provided upon request.

ATTACHMENT A—VOLATILE ORGANIC COMPOUNDS, SHORT LIST
USEPA Method 8260B,
Short List

Constituent	Geotracker Code
Acetone	ACE
Acrylonitrile	ACRAMD
Benzene	BZ
Bromochloromethane	BRCLME
Bromodichloromethane	BDCME
Bromoform (Tribromomethane)	TBME
Carbon disulfide	CDS
Carbon tetrachloride	CTCL
Chlorobenzene	CLBZ
Chloroethane (Ethyl chloride)	CLEA
Chloroform (Trichloromethane)	TCLME
Dibromochloromethane (Chlorodibromomethane)	DBCME
1,2 Dibromo 3 chloropropane (DBCP)	DBCP
1,2 Dibromoethane (Ethylene dibromide; EDB)	EDB
o Dichlorobenzene (1,2 Dichlorobenzene)	DCBZ12
m Dichlorobenzene (1,3 Dichlorobenzene)	DCBZ13
p Dichlorobenzene (1,4 Dichlorobenzene)	DCBZ14
trans 1,4 Dichloro 2 butene	DCBE14T
Dichlorodifluoromethane (CFC-12)	FC12

Constituent	Geotracker Code
1,1 Dichloroethane (Ethylidene chloride)	DCA11
1,2 Dichloroethane (Ethylene dichloride)	DCA12
1,1 Dichloroethylene (1,1 Dichloroethene; Vinylidene chloride)	DCE11
cis 1,2 Dichloroethylene (cis 1,2 Dichloroethene)	DCE12C
trans 1,2 Dichloroethylene (trans 1,2 Dichloroethene)	DCE12T
1,2 Dichloropropane (Propylene dichloride)	DCPA12
cis 1,3 Dichloropropene	DCP13C
trans 1,3 Dichloropropene	DCP13T
Di-isopropylether (DIPE)	DIPE
Ethanol	ETHANOL
Ethyltertiary butyl ether	ETBE
Ethylbenzene	EBZ
2 Hexanone (Methyl butyl ketone)	HXO2
Hexachlorobutadiene	HCBU
Methyl bromide (Bromomethene)	BRME
Methyl chloride (Chloromethane)	CLME
Methylene bromide (Dibromomethane)	DBMA
Methylene chloride (Dichloromethane)	DCMA
Methyl ethyl ketone (MEK: 2 Butanone)	MEK
Methyl iodide (Iodomethane)	IME
Methyl t-butyl ether	MTBE

Constituent	Geotracker Code
4-Methyl 2 pentanone (Methyl isobutylketone)	MIBK
Naphthalene	NAPH
Styrene	STY
Tertiary amyl methyl ether	TAME
Tertiary butyl alcohol	TBA
1,1,1,2 Tetrachloroethane	TC1112
1,1,2,2 Tetrachloroethane	PCA
Tetrachloroethylene (Tetrachloroethene; Perchloroethylene)	PCE
Toluene	BZME
1,2,4-Trichlorobenzene	TCB124
1,1,1 Trichloroethane (Methylchloroform)	TCA111
1,1,2 Trichloroethane	TCA112
Trichloroethylene (Trichloroethene)	TCE
Trichlorofluoromethane (CFC 11)	FC11
1,2,3 Trichloropropane	TCPR123
Vinyl acetate	VA
Vinyl chloride	VC
Xylenes	XYLENES

ATTACHMENT B—DISSOLVED INORGANICS (FIVE-YEAR COCS)

Dissolved Inorganics List

Constituent	Analytical Method	Geotracker Code
Aluminum	USEPA Method 6010	AL
Antimony	USEPA Method 7041	SB
Arsenic	USEPA Method 7062	AS
Barium	USEPA Method 6010	BA
Beryllium	USEPA Method 6010	BE
Cadmium	USEPA Method 7131A	CD
Chromium	USEPA Method 6010	CR
Cobalt	USEPA Method 6010	CO
Copper	USEPA Method 6010	CU
Cyanide	USEPA Method 9010C	CN
Iron	USEPA Method 6010	FE
Lead	USEPA Method 7421	PB
Manganese	USEPA Method 6010	MN
Mercury	USEPA Method 7470A	HG
Nickel	USEPA Method 7521	NI
Selenium	USEPA Method 7742	SE
Silver	USEPA Method 6010	AG
Sulfide	USEPA Method 9030Bx	S
Thallium	USEPA Method 7841	TL
Tin	USEPA Method 6010	SN

Constituent	Analytical Method	Geotracker Code
Vanadium	USEPA Method 6010	V
Zinc	USEPA Method 6010	ZN

**ATTACHMENT C—VOLATILE ORGANIC COMPOUNDS, EXTENDED LIST
(FIVE-YEAR COCS)**

**USEPA Method 8260,
Extended List**

Volatile Organic Compound	Geotracker Code
Acetone	ACE
Acetonitrile (Methyl cyanide)	ACCN
Acrolein	ACRL
Acrylonitrile	ACRAMD
Allyl chloride (3 Chloropropene)	CLPE3
Benzene	BZ
Bromochloromethane (Chlorobromomethane)	BRCLME
Bromodichloromethane (Dibromochloromethane)	DBCME
Bromoform (Tribromomethane)	TBME
Carbon disulfide	CDS
Carbon tetrachloride	CTCL
Chlorobenzene	CLBZ
Chloroethane (Ethyl chloride)	CLEA
Chloroform (Trichloromethane)	TCLME
Chloroprene	CHLOROPRENE
Dibromochloromethane (Chlorodibromomethane)	DBCME
1,2 Dibromo 3 chloropropane (DBCP)	DBCP
1,2 Dibromoethane (Ethylene dibromide; EDB)	EDB

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ATTACHMENT C—VOLATILE ORGANIC COMPOUNDS, EXTENDED LIST, (FIVE-YEAR COCS)

Volatile Organic Compound	Geotracker Code
o Dichlorobenzene (1,2 Dichlorobenzene)	DCBZ12
m Dichlorobenzene(1,3 Dichlorobenzene)	DCBZ13
p Dichlorobenzene (1,4 Dichlorobenzene)	DCBZ14
trans 1,4 Dichloro 2 butene	DCBE14T
Dichlorodifluoromethane (CFC 12)	FC12
1,1 Dichloroethane (Ethylidene chloride)	DCA11
1,2 Dichloroethane (Ethylene dichloride)	DCA12
1,1 Dichloroethylene (1, I Dichloroethene; Vinylidene chloride)	DCE11
cis 1,2 Dichloroethylene (cis 1,2 Dichloroethene)	DCE12C
trans 1,2 Dichloroethylene (trans 1,2 Dichloroethene)	DCE12T
1,2 Dichloropropane (Propylene dichloride)	DCPA12
1,3 Dichloropropane (Trimethylene dichloride)	DCPA13
2,2 Dichloropropane (Isopropylidene chloride)	DCPA22
1,1 Dichloropropene	DCP11
cis 1,3 Dichloropropene	DCP13C
trans 1,3 Dichloropropene	DCP13T
Di-isopropylether (DIPE)	DIPE
Ethanol	ETHANOL
Ethyltertiary butyl ether	ETBE
Ethylbenzene	EBZ
Ethyl methacrylate	EMETHACRY
Hexachlorobutadiene	HCBU

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ATTACHMENT C—VOLATILE ORGANIC COMPOUNDS, EXTENDED LIST, (FIVE-YEAR COCS)

Volatile Organic Compound	Geotracker Code
2 Hexanone (Methyl butyl ketone)	HXO2
Isobutyl alcohol	ISOBTOH
Methacrylonitrile	METHACRN
Methyl bromide (Bromomethane)	BRME
Methyl chloride (Chloromethane)	CLME
Methyl ethyl ketone (MEK; 2 Butanone)	MEK
Methyl iodide (Iodomethane)	IME
Methyl t-butyl ether	MTBE
Methyl methacrylate	MMTHACRY
4 Methyl 2 pentanone (Methyl isobutyl ketone)	MIBK
Methylene bromide (Dibromomethane)	DBMA
Methylene chloride (Dichloromethane)	DCMA
Naphthalene	NAPH
Propionitrile (Ethyl cyanide)	PACN
Styrene	STY
Tertiary amyl methyl ether	TAME
Tertiary butyl alcohol	TBA
1,1,1,2 Tetrachloroethane	TC1112
1,1,2,2 Tetrachloroethane	PCA
Tetrachloroethylene (Tetrachloroethene; Perchloroethylene; PCE)	PCE
Toluene	BZME

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ATTACHMENT C—VOLATILE ORGANIC COMPOUNDS, EXTENDED LIST, (FIVE-YEAR COCS)

Volatile Organic Compound	Geotracker Code
1,2,4 Trichlorobenzene	TCB124
1,1,1 Trichloroethane (Methylchloroform)	TCA111
1,1,2 Trichloroethane	TCA112
Trichloroethylene (Trichloroethene; TCE)	TCE
Trichlorofluoromethane (CFC 11)	FC11
1,2,3 Trichloropropane	TCPR123
Vinyl acetate	VA
Vinyl chloride (Chloroethene)	VC
Xylene (total)	XYLENES

**ATTACHMENT D—SEMI-VOLATILE ORGANIC COMPOUNDS
 (FIVE-YEAR COCS)**

**USEPA Methods 8270C or 8270D
 Base, Neutral & Acids Extractables List**

Constituent	Geotracker Code
Acenaphthene	ACNP
Acenaphthylene	ACNPY
Acetophenone	ACPHN
2 Acetylaminofluorene (2 AAF)	ACAMFL2
Aldrin	ALDRIN
4 Aminobiphenyl	AMINOBP4
Anthracene	ANTH
Benzo[a]anthracene (Benzanthracene)	BZAA
Benzo[b]fluoranthene	BZBF
Benzo[k]fluoranthene	BZKF
Benzo[g,h,i]perylene	BZGHIP
Benzo[a]pyrene	BZAP
Benzyl alcohol	BZLAL
Bis(2 ethylhexyl) phthalate	BIS2EHP
alpha BHC	BHCALPHA
beta BHC	BHCBETA
delta BHC	BHCDELTA
gamma BHC (Lindane)	BHCGAMMA

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ATTACHMENT D— SEMI-VOLATILE ORGANIC COMPOUNDS, (FIVE-YEAR COCS)

Constituent	Geotracker Code
Bis(2 chloroethoxy) methane	BECEM
Bis(2 chloroethyl) ether (Dichloroethyl ether)	BIS2CEE
Bis(2 chloro 1 methylethyl) ether (Bis(2 chloroisopropyl) ether; DCIP)	BIS2CIE
4 Bromophenyl phenyl ether	BPPE4
Butyl benzyl phthalate (Benzyl butyl phthalate)	BBP
Chlordane	CHLORDANE
p Chloroaniline	CLANIL4
Chlorobenzilate	CLBZLATE
p Chloro m cresol (4 Chloro 3 methylphenol)	C4M3PH
2 Chloronaphthalene	CNPH2
2 Chlorophenol	CLPH2
4 Chlorophenyl phenyl ether	CPPE4
Chrysene	CHRYSENE
o Cresol (2 methylphenol)	MEPH2
m Cresol (3 methylphenol)	MEPH3
p Cresol (4 methylphenol)	MEPH4
4,4' DDD	DDD44
4,4' DDE	DDE44
4,4' DDT	DDT44
Diallate	DIALLATE
Dibenz[a,h]anthracene	DBAHA

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ATTACHMENT D— SEMI-VOLATILE ORGANIC COMPOUNDS, (FIVE-YEAR COCS)

Constituent	Geotracker Code
Dibenzofuran	DBF
Di n butyl phthalate	DNBP
3,3' Dichlorobenzidine	DBZD33
2,4 Dichlorophenol	DCP24
2,6 Dichlorophenol	DCP26
Dieldrin	DIELDRIN
Diethyl phthalate	DEPH
p (Dimethylamino) azobenzene	PDMAABZ
7,12 Dimethylbenz[a]anthracene	DMBZA712
3,3' Dimethylbenzidine	DMBZD33
2,4 Dimehtylphenol (m Xylenol)	DMP24
Dimethyl phthalate	DMPH
m Dinitrobenzene	DNB13
4,6 Dinitro o cresol (4,6 Dinitro 2 methylphenol)	DN46M
2,4 Dinitrophenol	DNP24
2,4 Dinitrotoluene	DNT24
2,6 Dinitrotoluene	DNT26
Di n octyl phthalate	DNOP
Diphenylamine	DPA
Endosulfan I	ENDOSULFANA
Endosulfan II	ENDOSULFANB

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ATTACHMENT D— SEMI-VOLATILE ORGANIC COMPOUNDS, (FIVE-YEAR COCS)

Constituent	Geotracker Code
Endosulfan sulfate	ENDOSULFANS
Endrin	ENDRIN
Endrin aldehyde	ENDRINALD
Ethyl methanesulfonate	EMSULFN
Famphur	FAMPHUR
Fluoranthene	FLA
Fluorene	FL
Heptachlor	HEPTACHLOR
Heptachlor epoxide	HEPT-EPOX
Hexachlorobenzene	HCLBZ
Hexachlorocyclopentadiene	HCCP
Hexachloroethane	HCLEA
Hexachloropropene	HCPR
Indeno(1,2,3 c,d) pyrene	INP123
Isodrin	ISODRIN
Isophorone	ISOP
Isosafrole	ISOSAFR
Kepone	KEP
Methapyrilene	MTPYRLN
Methoxychlor	MTXYCL
3 Methylcholanthrene	MECHLAN3

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ATTACHMENT D— SEMI-VOLATILE ORGANIC COMPOUNDS, (FIVE-YEAR COCS)

Constituent	Geotracker Code
Methyl methanesulfonate	MMSULFN
2 Methylnaphthalene	MTNPH2
1,4 Naphthoquinone	NAPHQ14
1 Naphthylamine	AMINONAPH1
2 Naphthylamine	AMINONAPH2
o Nitroaniline (2 Nitroaniline)	NO2ANIL2
m Nitroaniline (3 Nitroaniline)	NO2ANIL3
p Nitroaniline (4 Nitroaniline)	NO2ANIL4
Nitrobenzene	NO2BZ
o Nitrophenol (2 Nitrophenol)	NTPH2
p Nitrophenol (4 Nitrophenol)	NTPH4
N Nitrosodi n butylamine (Di n butylNitrosamine)	NNSBU
N Nitrosodiethylamine (Diethylnitrosamine)	NNSE
N Nitrosodimethylamine (Dimethylnitrosamine)	NNSM
N Nitrosodiphenylamine (Diphenylnitrosamine)	NNSPH
N Nitrosodipropylamine (N Nitroso N dipropylamine; Di n propylNitrosamine)	NNSPR
N Nitrosomethylethylamine (Methylethylnitrosamine)	NNSME
N Nitrosopiperidine	NNSPPRD
N Nitrosopyrrolidine	NNSPYRL
5 Nitro o toluidine	TLDNONT5
Pentachlorobenzene	PECLBZ

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ATTACHMENT D— SEMI-VOLATILE ORGANIC COMPOUNDS, (FIVE-YEAR COCS)

Constituent	Geotracker Code
Pentachloronitrobenzene (PCNB)	PECLNO2BZ
Pentachlorophenol	PCP
Phenacetin	PHNACTN
Phenanthrene	PHAN
Phenol	PHENOL
p Phenylenediamine	ANLNAM4
Polychlorinated biphenyls (PCBs; Aroclors)	PCBS
Pronamide	PRONAMD
Pyrene	PYR
Safrole	SAFROLE
1,2,4,5 Tetrachlorobenzene	C4BZ1245
2,3,4,6 Tetrachlorophenol	TCP2346
o Toluidine	TLDNO
Toxaphene	TOXAP
2,4,5 Trichlorophenol	TCP245
0,0,0 Triethyl phosphorothioate	TEPTH
sym Trinitrobenzene	TNB135

ATTACHMENT E—CHLOROPHENOXY HERBICIDES (FIVE-YEAR COCS)

USPEA Method 8151A List

Constituent	GeoTracker Code
2,4 D (2,4 Dichlorophenoxyacetic acid)	24D
Dinoseb (DNBP; 2 sec Butyl 4,6 dinitrophenol)	DINOSEB
Silvex (2,4,5 Trichlorophenoxypropionic acid; 2,4,5 TP)	SILVEX
2,4,5 T (2,4,5 Trichlorophenoxyacetic acid)	245T

**ATTACHMENT F—ORGANOPHOSPHORUS COMPOUNDS
(FIVE YEAR COCS)**

USEPA Method 8151A List

Constituent	GeoTracker Code
2,4 D (2,4 Dichlorophenoxyacetic acid)	24D
Dinoseb (DNBP; 2 sec Butyl 4,6 dinitrophenol)	DINOSEB
Silvex (2,4,5 Trichlorophenoxypropionic acid; 2,4,5 TP)	SILVEX
2,4,5 T (2,4,5 Trichlorophenoxyacetic acid)	245T