

# 土壤重点监管单位 土壤污染隐患排查报告

企业名称: 中国石化催化剂有限公司

北京奥达分公司

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## 一、总论

### 1. 编制背景

为贯彻落实《中华人民共和国土壤污染防治法》《工矿用地土壤环境管理办法（试行）》，规范土壤污染隐患排查工作，及时发现土壤污染隐患并采取措施消除或者降低隐患，按照北京市生态环境局和通州区生态环境局关于重点监管单位土壤和地下水管理要求，土壤污染重点监管单位应严格控制有毒有害物质排放，建立土壤污染隐患排查制度，保证持续有效防止有毒有害物质渗漏、流失、扬散。

中国石化催化剂有限公司北京奥达分公司（以下简称“奥达”）按照《重点监管单位土壤污染隐患排查指南（试行）》相关要求，通过资料收集、人员访谈、现场调查等方式，确定了重点场所和重点设施设备，开展了有潜在土壤污染隐患的区域的排查，编制形成土壤污染隐患排查报告。

### 2. 排查目的和原则

（1）通过资料收集、人员访谈、现场调查等方式，排查厂区内土壤污染隐患，排查土壤污染预防设施设备的配备和运行情况，分析判断是否能有效防止和及时发现有毒有害物质渗漏、流失、扬散，并形成隐患排查台账。

（2）根据隐患排查台账，制定整改方案，提出具体整改措施及计划完成时间，并形成隐患整改台账。

（3）建立隐患排查档案并存档备查。

### 3. 排查范围

通过资料收集、人员访谈、现场调查等方式，确定重点场所和重点设施设备，即可能或易发生有毒有害物质渗漏、

流失、扬散的场所和设施设备，对厂区进行土壤污染隐患排查。

#### 4. 编制依据

(1) 《中华人民共和国环境保护法》（中华人民共和国主席令第九号，2014年4月24日）；

(2) 《中华人民共和国土壤污染防治法》（2018年8月31日，十三届全国人大常委会第五次会议表决通过，2019年1月1日正式实施）；

(3) 《中华人民共和国固体废物污染环境防治法》（2020年4月29日第十三届全国人民代表大会常务委员会第十七次会议第二次修订，2020年9月1日起施行）；

(4) 《中华人民共和国安全生产法》（2021年6月10日第十三届全国人民代表大会常务委员会第二十九次会议于通过《全国人民代表大会常务委员会关于修改〈中华人民共和国安全生产法〉的决定》，自2021年9月1日起施行）；

(5) 《危险化学品安全管理条例》（中华人民共和国国务院令 第591号，2011年3月2日）；

(6) 《国家危险废物名录》（2025版）；

(7) 《国民经济行业分类》（GB/T4754-2017）；

(8) 《土壤污染防治行动计划》（国发[2016]31号）；

(9) 《北京市土壤污染防治工作方案》；

(10) 《北京市土壤污染防治条例》；

(11) 《重点监管单位土壤污染隐患排查指南(试行)》；

(12) 《地下水质量标准》（GB/T14848-2017）；

(13) 《土壤环境质量 建设用地土壤污染风险管控标

准（试行）》（GB36600-2018）；

（14）《污染场地挥发性有机物调查与风险评估技术导则》（DB11/T 1278-2015）；

（15）《地下水环境监测技术规范》（HJ 164-2020）；

（16）《土壤质量 土壤气体采样指南》（GBT 36198-2018）；

（17）《工矿用地土壤环境管理办法（试行）》；

（18）《工业企业土壤和地下水自行监测技术指南（试行）》（HJ1209-2021）。

## 二、企业概况

### 1. 企业基础信息

中国石化催化剂有限公司北京奥达分公司（简称“奥达”），地处北京市北京经济技术开发区（通州）中关村科技园通州园光机电一体化产业基地兴光五街13号，其前身北京市奥达石化新技术开发中心成立于1993年4月，是化工部北京化工研究院与中国石化科技开发公司合资创建的。2004年底，随着中国石化股份公司催化剂分公司的组建，成为催化剂北京奥达分公司。作为中国石化唯一聚烯烃催化剂技术产业化基地，奥达在国内聚烯烃催化剂行业处于龙头和主导地位，在聚烯烃催化剂领域综合实力排名世界前列。

奥达设置7个管理部门，即综合管理部、党群工作部、党委组织部（人力资源部）、财务资产部、安全环保部、生产管理部（设备管理部）、技术质量部，拥有3个车间和3个中心，即联合一车间、联合二车间、动力环保车间、储运中心、质检中心、工程技术试验中心。

企业基础信息见表1。

表1 企业基础信息表

|      |                                            |         |                       |
|------|--------------------------------------------|---------|-----------------------|
| 企业名称 | 中国石化催化剂有限公司北京奥达分公司                         |         |                       |
| 负责人  | 郑建坡                                        | 联系人     | 尉迟君                   |
| 联系电话 | 13581783335                                | 邮箱地址    | yucj.chji@sinopec.com |
| 企业地址 | 北京市北京经济技术开发区（通州）中关村科技园通州园光机电一体化产业基地兴光五街13号 |         |                       |
| 企业坐标 | E: 116° 33' 34", N: 39° 48' 58"            |         |                       |
| 占地面积 | 150000 平方米                                 | 行业类别及代号 | 2661 化学试剂和助剂制造        |

|            |                                                                                 |         |                                                                                 |
|------------|---------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------|
| 成 立 时 间    | 1993 年 4 月                                                                      | 最新改扩建时间 | 2010 年 7 月                                                                      |
| 隐患排查日期     | 2025 年 7 月                                                                      | 排 查 人   | 安全环保督察大队                                                                        |
| 地 块 权 属    | 自 有 土 地 <input checked="" type="checkbox"/><br>租 赁 厂 房 <input type="checkbox"/> | 排 查 类 型 | 年 度 排 查 <input type="checkbox"/><br>定 期 排 查 <input checked="" type="checkbox"/> |
| 隐患排查制度     | 《关于贯彻落实环境隐患排查工作方案的通知》（石化催奥达〔2020〕17号）、《中国石化催化剂有限公司北京奥达分公司土壤和地下水污染防治管理规定》        |         |                                                                                 |
| 本次隐患排查成果总结 | 发现一般隐患一处，已完成整改                                                                  |         |                                                                                 |

### 1.1 地理位置

奥达坐落于北京经济技术开发区（通州），原属于北京市通州区。通州区区域地理坐标为北纬 39° 46′-40° 02′，东经 116° 32′-116° 56′。东西宽 36.5km，南北长 48km，所辖面积 912.34km<sup>2</sup>。西邻朝阳区、大兴区，北与顺义区接壤，东隔潮白河与河北省三河市、大厂回族自治县、香河县相连，南和天津市武清区、河北省廊坊市安次区交界。

奥达位于北京市东南，地处五环路和六环路之间，具体地址为北京市北京经济技术开发区（通州）中关村科技园通州园光机电一体化产业基地兴光五街 13 号，企业中心经纬度为东经：116° 33′ 34"；北纬：39° 48′ 58"。

地理位置见图 1。



图 1 奥达地理位置图

## 1.2 自然环境状况

### 1.2.1 地形地貌

奥达所在的位置属于北京城区东南部平原地区，地形基本平坦，地势起伏不大，地貌上属于永定河冲洪积扇的轴部，为古金沟河故道。北京市位于华北大平原北端，全市土地面积 16410km<sup>2</sup>。其中，平原面积 6338km<sup>2</sup>，占 38.6%；山区面积 10072km<sup>2</sup>，占 61.4%。城区面积 87.1km<sup>2</sup>。北京的西、北和东北，群山环绕，东南是缓缓向渤海倾斜的大平原。北京平原的海拔高度在 20-60m，山地一般海拔 1000-1500m，与河北交界的东灵山海拔 2303m，为北京市最高峰。北京的地势是西北高、东南低。西部是太行山余脉的西山，北部是燕山山脉的军都山，两山在南口关沟相交，形成一个向东南展开的半圆形大山弯，称之为“北京弯”，它所围绕的小平原即为北京小平原。

地形地貌特征见图 2。



布。该层揭露厚度 0.80-2.60 m。局部为杂填土①<sub>1</sub>层。

## (2) 第四系沉积层

砂质粉土~黏质粉土②层：褐黄色-灰色，中密，湿，含云母、氧化铁及有机质，该层揭露厚度 1.50-6.00m。

粉质②<sub>1</sub>层：褐黄色，中密，湿，含云母、氧化铁。该层揭露厚度 1.80-2.8m。仅个别钻孔揭露该层。

黏质粉土②<sub>2</sub>层：褐黄色，中密，湿，含云母、氧化铁。该层揭露厚度 0.60-1.20m。仅个别钻孔揭露该层。

粉质黏土②<sub>3</sub>层：褐黄色，湿，可塑，含有云母、氧化铁，该层揭露厚度 0.40-1.70m。

粉质黏土③层：灰色-褐黄色，可塑，湿，含云母、氧化铁及有机质，该层揭露厚度 0.90-4.00m。

黏质粉土③<sub>1</sub>层：灰黄色，密实，湿，含云母、有机质。该层揭露厚度 1.60-2.7m。仅个别钻孔揭露该层。

粉细砂④层：褐黄色，密实，饱和，含云母及少量圆砾。该层揭露厚度 1.2-8.5m。

砂质粉土④<sub>1</sub>层：灰色，中密，饱和，含有机质。该层未揭穿。

粉质黏土④<sub>2</sub>层：灰色-褐黄色，可塑，湿，含云母、氧化铁及有机质。该层未揭穿。



图 3 典型水文地质剖面线平面布置图

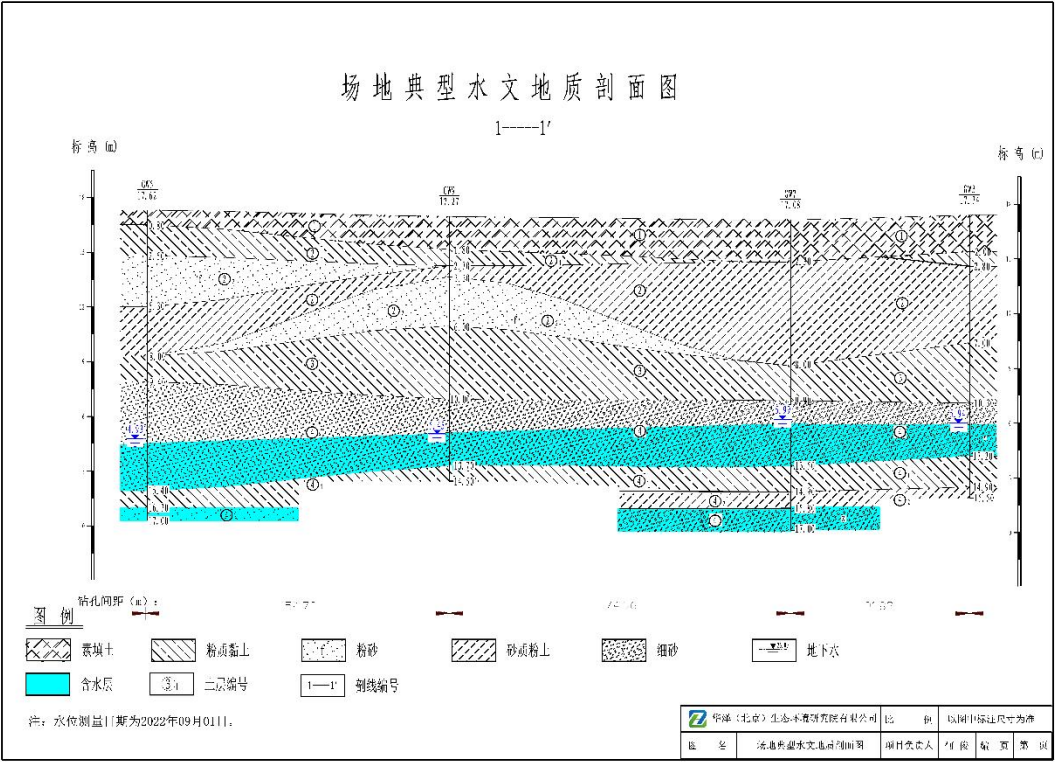


图 4 厂区地层剖面图 (1-1' )

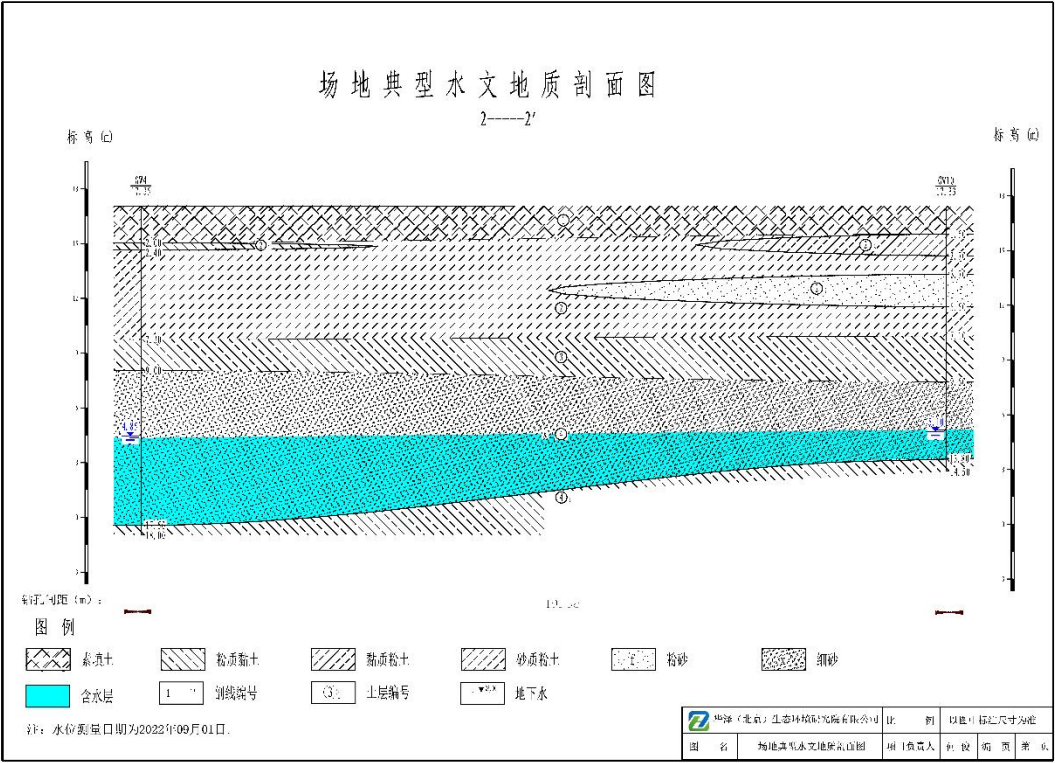


图 5 厂区地层剖面图 (2-2' )

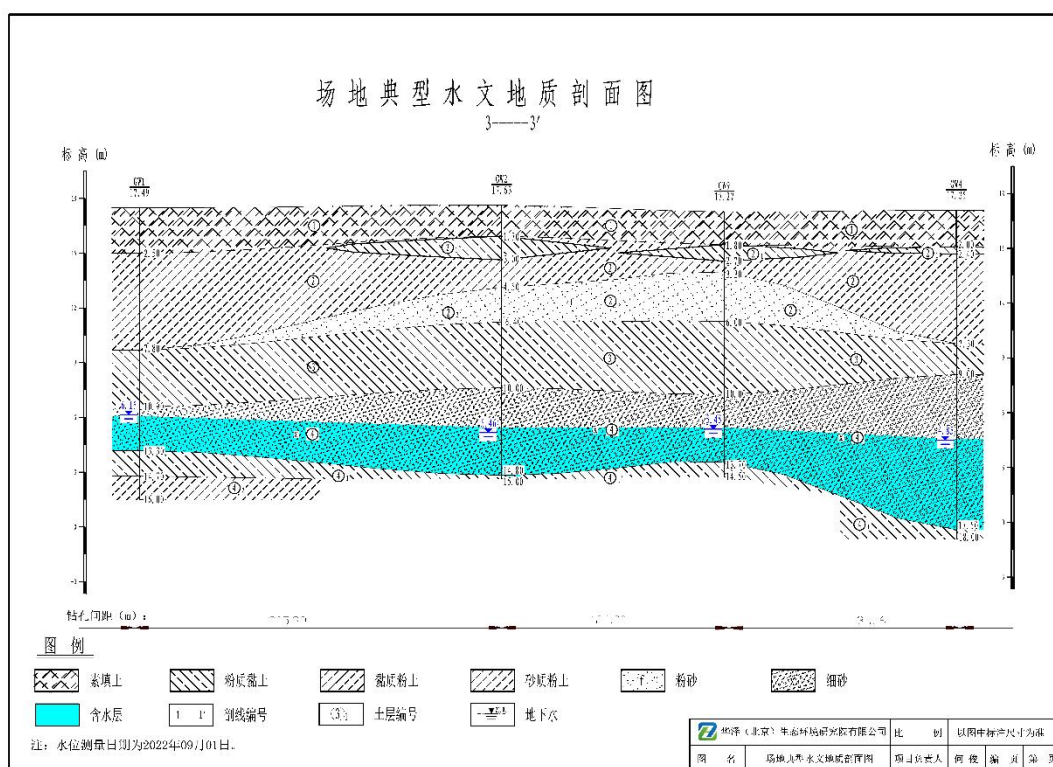


图 6 厂区地层剖面图 (3-3' )

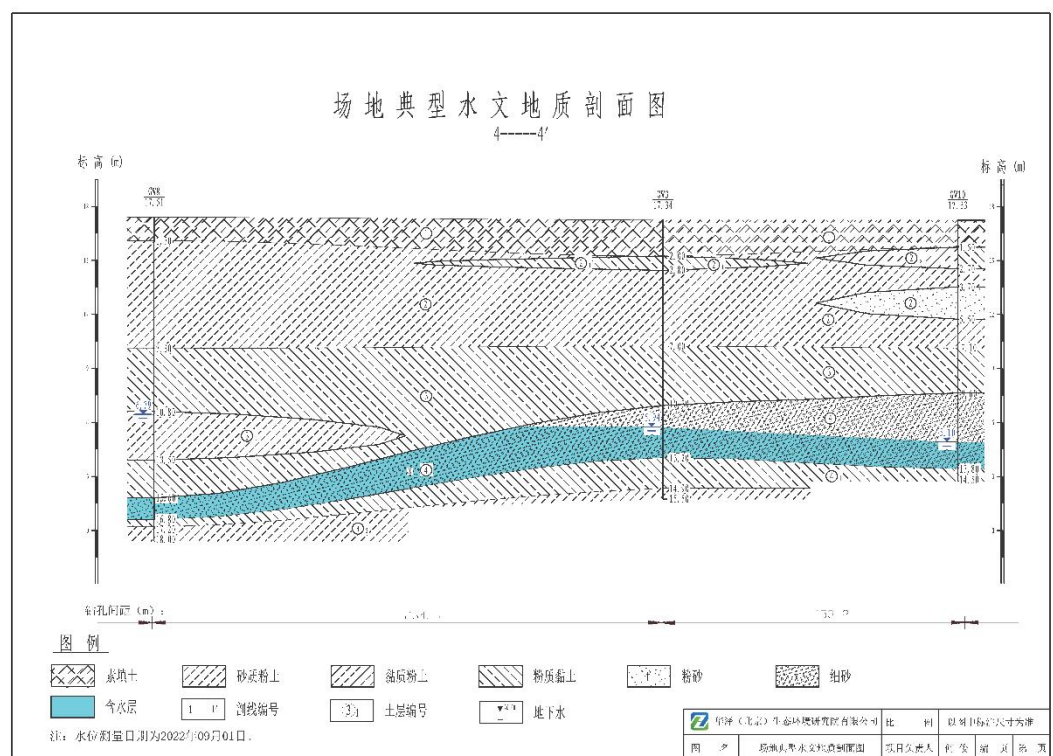


图 7 厂区地层剖面图 (4-4' )

### 1.2.3 局部水文地质条件

厂区内地貌类型单一，地表以下 18.0 m 深度范围内仅揭露到一层地下水，主要赋存于粉细砂④层及④1 砂质粉土层，综合考虑地下水类型为无压层间水-承压水。地下水动态类型主要为渗入-径流型，以大气降水入渗、地下水侧向径流、“天窗”渗漏及越流补给方式为主，以侧向径流、人工开采和向下越流方式排泄，含水岩组为第四纪厚层砂卵石土层，含水岩组富水性较强。

图 8 为根据水位统测数据绘制的地下水流场图。

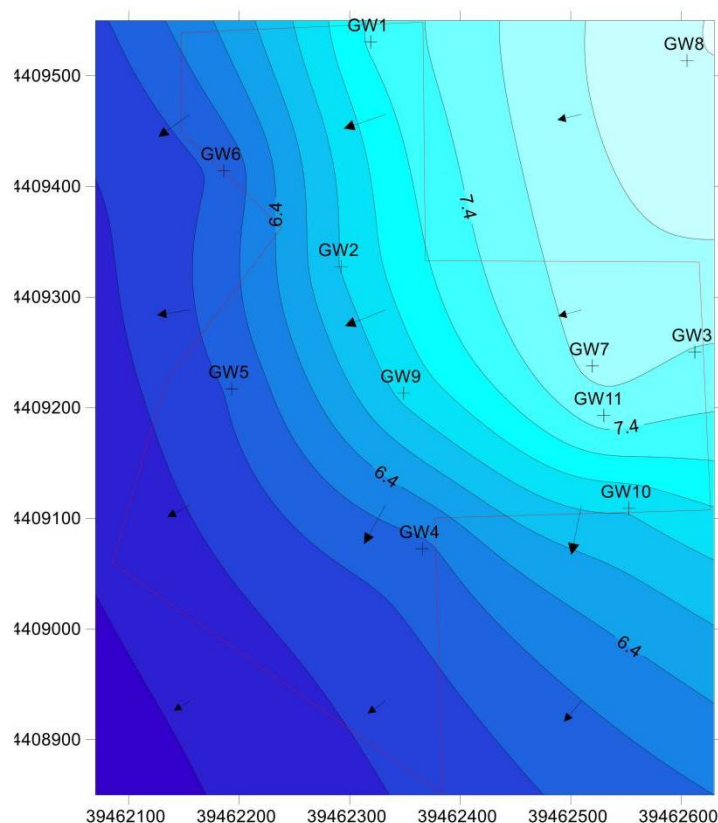


图 8 奥达地块地下水流场图（2024 年 7 月）

### 1.2.4 气象水文条件

北京地区地处中纬度欧亚大陆东侧，位于我国季风气候

区，属暖温带半湿润半干旱季风气候，受季风影响，形成春季干旱多风、夏季炎热多雨、秋季秋高气爽、冬季寒冷干燥四季分明的气候特点。主要气候特点如下：

降雨量：全市多年平均降水量为 595mm，降水量年变化大，历年最小降水量为 267mm，最大降水量为 1406mm，两者相差 5 倍以上。降水量年内分配不均，汛期(6-8 月)降水量一般占全年降水量的 80%以上：旱的周期性变化较明显，一般九至十年左右出现一个周期，连续枯水年和偏枯水年有时达数年。

气温：由于地理因素的影响，北京地区的气温空间分布变化较大。年平均气温 1-12℃ 间，城区略高于 12℃，这与城市热岛效应有关。年平均气温与各季气温，均随海拔高度的增高而由平原向西部、北部山区递减。等值线的走向与山脉等高线走向基本一致，平原与山脉交界地带等温线较为密集，气温随高度分布的梯度较大。平原区在近 1 年平均气温为 12.5-13.7℃，年平均气温则基本上由东南向西北递减。近十年极端最高气温为 42.2℃，极端最低气温出现为 -18.4℃。

标准冻结深度：近二十年城内及近郊区标准冻土深度为 0.8m。

风速及风向：全市月平均风速以春季四月份最大，市区最大风速达 3.6m/s，其次是冬、秋季，夏季风速最小，夏季受大陆低气压控制，多东南风，秋、冬季受蒙古高气压控制，多为西北风，寒冷干燥。平均风速 2.4m/s，近十年春季市区最大风速达 3.6m/s。

水文：通州区属海河流域，河网密度为  $0.29\text{km}/\text{km}^2$ ，径流总量  $1.18\text{亿 m}^3$ 。本地区河网分布，排灌条件良好，主要河渠有北运河，潮白河等。项目流域内地表水汇水河流主要为西排干和凉水河。西排干是北京市东南郊一条排水干渠，上游与观音堂相接，由北向南流经朝阳、通州两区，于通州区台湖镇北堤村西汇入凉水河，沿途有大柳树沟等支流汇入，全长约  $14.8\text{km}$ 。西排干在通州区内河长约  $7.1\text{km}$ 。凉水河源于丰台区后泥洼村，流经丰台区、大兴区、通州区，于榆林庄闸上游汇入北运河，是北运河的一条主要支流。全长  $58\text{km}$ ，流域面积  $629.7\text{km}^2$ 。有草桥河、马草河、马草沟、大羊坊沟、萧太后河等支流。50 年代中期拓宽治理后，河道上建有大红门、马驹桥、新河、张家湾 4 座拦河闸，可蓄水 400 多万  $\text{m}^3$ ，灌溉农田 20 多万亩。在奥达东部厂界外，有一条南北走向的灌渠，名为通惠河灌渠。

### 1.3 企业用地情况

奥达始建于 1993 年，建厂之前所在地块为农业用地，历史上未曾有过工业开发。据人员访谈，仅在厂区西南角附近曾有过一家微型自行车厂，年代久远，无资料。在厂区建设后，土壤和地下水未受到因环境事故引发的工业污染。自 1993 年建厂至 2003 年，厂区及厂区周边土地利用类型无变化。

## 2. 项目建设概况

企业所在地块土地所有权属于中国石化集团公司，奥达租用部分地块、厂房，与厂区内其他企业共同使用污水处理设施。

[illegible]

厂区用地部分呈不规则形状，南北向长度约为 450m，东西向宽度约为 200m。企业总平面布置采用分区布置方式，划分为生产区、废物处置区、办公区和生活区，南北各有一个入厂大门。

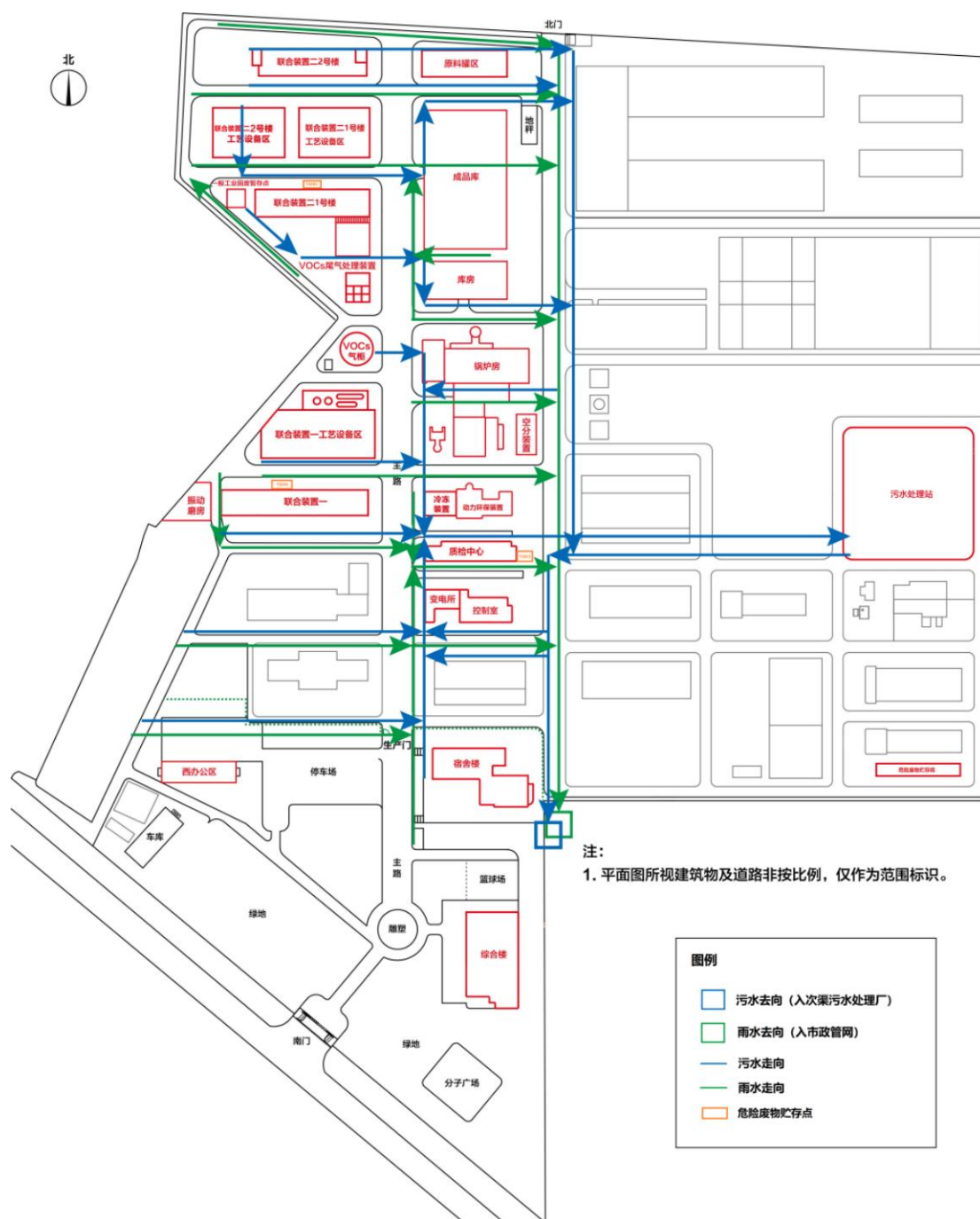


图 10 企业雨污管线图

具体建筑物概况见表 2。

表 2 企业建筑物概况

| 项目组成 | 建设内容  | 厂区位<br>置 | 内容与规模                                                                                                    | 备注 |
|------|-------|----------|----------------------------------------------------------------------------------------------------------|----|
| 主体工程 | 联合一车间 | 中西       | 占地面积 1077m <sup>2</sup> ，建筑面积 6057 m <sup>2</sup> ，主要生产球形载体、聚烯烃催化剂，包括联合一车间研磨单元、载体生产单元、聚烯烃催化剂 SCX001 生产线。 |    |

| 项目组成 | 建设内容              | 厂区位<br>置 | 内容与规模                                                                                                               | 备注 |
|------|-------------------|----------|---------------------------------------------------------------------------------------------------------------------|----|
|      | 联合二车间<br>一号楼      | 西北       | 占地面积 1359 m <sup>2</sup> , 建筑面积 4100m <sup>2</sup> , 主要生产聚烯烃催化剂。西南侧有一个沉降池, 池底埋深 4m。                                 |    |
|      | 联合二车间<br>二号楼      | 西北       | 占地面积 9934m <sup>2</sup> , 建筑面积 4888 m <sup>2</sup> , 主要生产聚烯烃催化剂。                                                    |    |
| 储运工程 | 原料罐区              | 北        | 原料罐区设置有储罐 6 个, 均为立式储罐; 己烷储罐、乙醇储罐、甲苯储罐、2 个四氯化钛储罐、备用罐。                                                                |    |
|      | 联合一车间室外工艺设备区      | 中西       | 占地面积 710m <sup>2</sup> , 联合一车间原辅料储罐, 东南角有一个沉降池, 池底埋深 4m。                                                            |    |
|      | 联合二车间 1 号楼室外工艺设备区 | 西北       | 占地面积 580m <sup>2</sup> , 联合二车间 1 号楼原辅料储罐。                                                                           |    |
|      | 联合二车间 2 号楼室外工艺设备区 | 西北       | 占地面积 545m <sup>2</sup> , 联合二车间 2 号楼原辅料储罐。                                                                           |    |
| 公用工程 | 锅炉房               | 中        | 占地面积 1300m <sup>2</sup> , 建筑面积 1300m <sup>2</sup> , 设有两台燃气蒸汽锅炉, 蒸汽规模分别为 12t/h 和 10t/h。北部有锅炉排水中和池。                   |    |
|      | 动力环保车间            | 中        | 占地面积 375m <sup>2</sup> , 现有空分系统、空气压缩系统、循环水系统和冷冻系统, 为生产提供高纯度氮气、压缩空气、循环水及冷冻盐水。                                        |    |
| 辅助工程 | 成品库               | 北        | 占地面积 3695 m <sup>2</sup> , 建筑面积 3695m <sup>2</sup> , 用于存放聚烯烃催化剂成品。                                                  |    |
|      | 库房                | 中北       | 占地面积 1030 m <sup>2</sup> , 建筑面积 3100m <sup>2</sup> , 用于存贮氯化镁及备品备件等。                                                 |    |
|      | 质检中心              | 中        | 占地面积 660m <sup>2</sup> , 进行原材料及产品质量分析。                                                                              |    |
|      | 宿舍、食堂、办公楼         | 南        | 食堂建筑面积 1638.62m <sup>2</sup> , 仅供公司员工每天用餐。宿舍占地面积 1142m <sup>2</sup> , 建筑面积 5240m <sup>2</sup> , 为员工倒班宿舍。办公楼为职工办公用房。 |    |
|      | 办公区               | 西南       | 为职工办公用房。                                                                                                            |    |
|      | 车库                | 西南       | 为车辆停车库房及部分员工办公用房。                                                                                                   |    |
| 环保工程 | 污水处理站             | 东        | 占地面积 1300m <sup>2</sup> , 处理生产区装置生产废水、生活污水、初期雨水和事故废水。                                                               |    |
|      | 废气处理设施            | 中西       | 占地面积 408m <sup>2</sup> , 处理联合一车间、联合二车间 1 号楼、联合二车间 2 号楼生产废气。                                                         |    |
|      | 一般工业固废暂存点         | 中西       | 用于收集、贮存一般工业固废。                                                                                                      |    |
|      | 危险废物贮存库           | 东南       | 占地面积 550m <sup>2</sup> , 用于收集、贮存危险废物。                                                                               |    |

### 3. 原辅料及产品情况

#### 3.1 产品情况

奥达年产能为聚烯烃催化剂 265 吨，存放于成品库房。

#### 3.2 原辅料情况

生产所需原辅材料为甲苯、正己烷、四氯化钛、无水乙醇、氯化镁、磷酸三丁酯（TBP）、苯酐、氢氧化钠（33%）、正硅酸乙酯、环氧氯丙烷（ECP）、邻苯二甲酸二正丁酯（DNBP）、邻苯二甲酸二异丁酯（DIBP）、白油等。原辅料情况见下表 3。

表 3 原辅料情况

| 名称                       | 理化性质 | 毒理学性质   | 年使用量 t  | 包装 | 形态 | 最大储量 t | 储存及使用地点          |
|--------------------------|------|---------|---------|----|----|--------|------------------|
| 甲苯                       | 易燃   | 吸入危害    | 262.31  | 储罐 | 液态 | 250    | 原料罐区、联合一车间、联合二车间 |
| 正己烷                      | 易燃   | 皮肤腐蚀/刺激 | 162.264 | 储罐 | 液态 | 181    | 原料罐区、联合一车间、联合二车间 |
| 四氯化钛（TiCl <sub>4</sub> ） | 可燃   | 刺激性     | 967.338 | 储罐 | 液态 | 434    | 原料罐区、联合一车间、联合二车间 |
| 无水乙醇                     | 易燃   | 刺激性     | 281.656 | 储罐 | 液态 | 41     | 联合一车间            |
| 氯化镁                      | /    | /       | 241.039 | 桶装 | 固态 | 3.6    | 联合一车间            |
| 磷酸三丁酯（TBP）               | 可燃   | 皮肤腐蚀/刺激 | 82.3    | 储罐 | 液态 | 12.7   | 联合二车间            |
| 苯酐                       | 可燃   | 腐蚀性、刺激性 | 4.907   | 袋装 | 固态 | 0.5    | 联合二车间            |
| 氢氧化钠（33%）                | /    | 强腐蚀性    | 53.68   | 储罐 | 液态 | 15     | 联合二车间            |
| 正硅酸乙酯                    | 易燃   | 皮肤腐蚀/刺激 | 26.09   | 储罐 | 液态 | 3.3    | 联合二车间            |
| 环氧氯丙烷（ECP）               | 易燃   | 刺激性     | 44.04   | 储罐 | 液态 | 5.6    | 联合二车间            |
| 邻苯二甲酸二正丁酯（DNBP）          | 可燃   | 刺激性     | 10.446  | 储罐 | 液态 | 2.1    | 联合二车间            |
| 邻苯二甲酸二异丁酯（DIBP）          | 可燃   | 皮肤腐蚀/刺激 | 2.374   | 储罐 | 液态 | 1.3    | 联合二车间            |

| 名称 | 理化性质 | 毒理学性质 | 年使用量 t | 包装 | 形态 | 最大储量 t | 储存及使用地点 |
|----|------|-------|--------|----|----|--------|---------|
| 白油 | /    | /     | 289.79 | 储罐 | 液态 | 4.7    | 联合二车间   |

#### 4. 生产工艺及产排污环节

奥达现拥有 2 个生产车间、1 个辅助车间、3 个辅助中心、1 套废气治理设施和 1 套废水治理设施，其中 2 个生产车间为联合一车间和联合二车间，1 个辅助车间为动力环保车间，3 个辅助中心为质检中心、储运中心和工程技术试验中心。

联合一车间有 3 条生产线，分别为载体生产线、DQ 催化剂生产线和 N 催化剂生产线；联合二车间有 3 条生产线，分别为 1 号楼 N 催化剂生产线、1 号楼 BCS 催化剂生产线和 2 号楼 BCE 催化剂生产线。

2 个生产车间主要设备一览表见表 4。

表 4 主要设备一览表

| 序号 | 名称        | 规格   |                |      | 数量<br>(台) | 使用地点      |
|----|-----------|------|----------------|------|-----------|-----------|
|    |           | 参数名称 | 单位             | 设计值  |           |           |
| 一  | 联合一车间载体单元 |      |                |      |           |           |
| 1  | 粉碎机       | 处理量  | t/h            | 2    | 1         | 联合一车间载体装置 |
| 2  | 振动磨       | 容积   | m <sup>3</sup> | 1    | 6         | 联合一车间载体装置 |
| 3  | 超重力机      | 容积   | m <sup>3</sup> | 0.25 | 2         | 联合一车间载体装置 |
| 4  | 醇合釜       | 容积   | m <sup>3</sup> | 2    | 2         | 联合一车间载体装置 |
| 5  | 高搅釜       | 容积   | m <sup>3</sup> | 0.25 | 1         | 联合一车间载体装置 |
| 6  | 混油釜       | 容积   | m <sup>3</sup> | 5    | 1         | 联合一车间载体装置 |
| 7  | 冷却釜       | 容积   | m <sup>3</sup> | 10.2 | 3         | 联合一车间载体装置 |
| 8  | 洗涤釜       | 容积   | m <sup>3</sup> | 3.46 | 3         | 联合一车间载体装置 |
| 9  | 悬液釜       | 容积   | m <sup>3</sup> | 2    | 1         | 联合一车间载体装置 |
| 10 | 乙醇计量罐     | 容积   | m <sup>3</sup> | 0.3  | 1         | 联合一车间载体装置 |
| 11 | 真空抽干釜     | 容积   | m <sup>3</sup> | 1    | 4         | 联合一车间载体装置 |
| 12 | 白油计量罐     | 容积   | m <sup>3</sup> | 0.41 | 1         | 联合一车间载体装置 |
| 13 | 乙醇计量罐     | 容积   | m <sup>3</sup> | 0.16 | 1         | 联合一车间载体装置 |

|    |                        |     |                   |      |    |             |
|----|------------------------|-----|-------------------|------|----|-------------|
| 14 | 乙醇吸附塔                  | 处理量 | m <sup>3</sup> /h | 90   | 1  | 联合一车间载体装置   |
| 15 | 分子筛塔                   | 处理量 | t/h               | 0.08 | 12 | 联合一车间载体装置   |
| 16 | 精乙醇储罐                  | 容积  | m <sup>3</sup>    | 1.5  | 2  | 联合一车间载体装置   |
| 17 | 精乙醇储罐                  | 容积  | m <sup>3</sup>    | 3    | 1  | 联合一车间载体装置   |
| 18 | 精制原料罐                  | 容积  | m <sup>3</sup>    | 1.5  | 2  | 联合一车间载体装置   |
| 19 | 原料贮罐                   | 容积  | m <sup>3</sup>    | 7.63 | 2  | 联合一车间载体装置   |
| 20 | 原料贮罐                   | 容积  | m <sup>3</sup>    | 1.5  | 1  | 联合一车间载体装置   |
| 二  | 联合一车间 DQ 催化剂生产单元       |     |                   |      |    |             |
| 1  | DIBP 计量罐               | 容积  | m <sup>3</sup>    | 0.08 | 2  | 联合一车间 DQ 装置 |
| 2  | 掺合釜                    | 容积  | m <sup>3</sup>    | 1.5  | 2  | 联合一车间 DQ 装置 |
| 3  | 超重力机                   | 容积  | m <sup>3</sup>    | 0.25 | 1  | 联合一车间 DQ 装置 |
| 4  | 醇合釜                    | 容积  | m <sup>3</sup>    | 1.35 | 1  | 联合一车间 DQ 装置 |
| 5  | 合成釜                    | 容积  | m <sup>3</sup>    | 3.92 | 2  | 联合一车间 DQ 装置 |
| 6  | 己烷计量罐                  | 容积  | m <sup>3</sup>    | 0.15 | 1  | 联合一车间 DQ 装置 |
| 7  | 四氯化钛计量罐                | 容积  | m <sup>3</sup>    | 3    | 1  | 联合一车间 DQ 装置 |
| 8  | 旋转抽干釜                  | 容积  | m <sup>3</sup>    | 1    | 1  | 联合一车间 DQ 装置 |
| 9  | 振动抽干釜                  | 容积  | m <sup>3</sup>    | 1    | 1  | 联合一车间 DQ 装置 |
| 10 | 闪蒸釜                    | 容积  | m <sup>3</sup>    | 3.9  | 2  | 联合一车间 DQ 装置 |
| 11 | 闪蒸塔                    | 处理量 | m <sup>3</sup> /h | 0.7  | 2  | 联合一车间 DQ 装置 |
| 12 | 四氯化钛罐                  | 容积  | m <sup>3</sup>    | 12.3 | 2  | 联合一车间 DQ 装置 |
| 13 | 四氯化钛罐                  | 容积  | m <sup>3</sup>    | 8.4  | 2  | 联合一车间 DQ 装置 |
| 14 | 四氯化钛精馏塔                | 处理量 | m <sup>3</sup> /h | 0.8  | 1  | 联合一车间 DQ 装置 |
| 15 | 碱液罐                    | 容积  | m <sup>3</sup>    | 1.5  | 1  | 联合一车间 DQ 装置 |
| 16 | 清酸储罐                   | 容积  | m <sup>3</sup>    | 10   | 2  | 联合一车间 DQ 装置 |
| 17 | 水解釜                    | 容积  | m <sup>3</sup>    | 2    | 2  | 联合一车间 DQ 装置 |
| 18 | 水吸收塔                   | 处理量 | m <sup>3</sup> /h | 15   | 3  | 联合一车间 DQ 装置 |
| 19 | 中和釜                    | 容积  | m <sup>3</sup>    | 2    | 1  | 联合一车间 DQ 装置 |
| 20 | DIBP 精制罐               | 容积  | m <sup>3</sup>    | 0.33 | 2  | 联合一车间 DQ 装置 |
| 21 | 粗己烷储罐                  | 容积  | m <sup>3</sup>    | 11.7 | 2  | 联合一车间 DQ 装置 |
| 22 | 己烷脱水塔                  | 处理量 | m <sup>3</sup> /h | 0.3  | 2  | 联合一车间 DQ 装置 |
| 23 | 精 TiCl <sub>4</sub> 储罐 | 容积  | m <sup>3</sup>    | 8.4  | 2  | 联合一车间 DQ 装置 |
| 24 | 精己烷储罐                  | 容积  | m <sup>3</sup>    | 4    | 2  | 联合一车间 DQ 装置 |
| 三  | 联合一车间 N 催化剂生产单元        |     |                   |      |    |             |
| 1  | DIBP 计量罐               | 容积  | m <sup>3</sup>    | 0.07 | 1  | 联合一车间 N 装置  |
| 2  | DNBP 计量罐               | 容积  | m <sup>3</sup>    | 0.07 | 1  | 联合一车间 N 装置  |
| 3  | ECP 计量罐                | 容积  | m <sup>3</sup>    | 0.13 | 2  | 联合一车间 N 装置  |
| 4  | TBP 计量罐                | 容积  | m <sup>3</sup>    | 0.4  | 2  | 联合一车间 N 装置  |

|    |            |     |                   |      |    |            |
|----|------------|-----|-------------------|------|----|------------|
| 5  | 白油精制罐      | 容积  | m <sup>3</sup>    | 2.15 | 1  | 联合一车间 N 装置 |
| 6  | 掺和釜        | 容积  | m <sup>3</sup>    | 2.8  | 1  | 联合一车间 N 装置 |
| 7  | 掺和釜        | 容积  | m <sup>3</sup>    | 1.49 | 1  | 联合一车间 N 装置 |
| 8  | 掺和釜        | 容积  | m <sup>3</sup>    | 0.9  | 1  | 联合一车间 N 装置 |
| 9  | 抽干釜        | 容积  | m <sup>3</sup>    | 0.9  | 4  | 联合一车间 N 装置 |
| 10 | 粗甲苯计量罐     | 容积  | m <sup>3</sup>    | 2    | 2  | 联合一车间 N 装置 |
| 11 | 合成釜        | 容积  | m <sup>3</sup>    | 5.57 | 2  | 联合一车间 N 装置 |
| 12 | 己烷计量罐      | 容积  | m <sup>3</sup>    | 3    | 1  | 联合一车间 N 装置 |
| 13 | 甲苯计量罐      | 容积  | m <sup>3</sup>    | 3    | 2  | 联合一车间 N 装置 |
| 14 | 甲苯计量罐      | 容积  | m <sup>3</sup>    | 0.04 | 1  | 联合一车间 N 装置 |
| 15 | 溶解釜        | 容积  | m <sup>3</sup>    | 4.86 | 1  | 联合一车间 N 装置 |
| 16 | 四氯化钛计量罐    | 容积  | m <sup>3</sup>    | 1.87 | 1  | 联合一车间 N 装置 |
| 17 | 洗涤釜        | 容积  | m <sup>3</sup>    | 3.77 | 2  | 联合一车间 N 装置 |
| 18 | 乙醇计量罐      | 容积  | m <sup>3</sup>    | 0.4  | 1  | 联合一车间 N 装置 |
| 19 | 闪蒸釜        | 容积  | m <sup>3</sup>    | 3.9  | 2  | 联合一车间 N 装置 |
| 20 | 闪蒸塔        | 处理量 | m <sup>3</sup> /h | 0.7  | 2  | 联合一车间 N 装置 |
| 21 | 闪蒸塔回流罐     | 容积  | m <sup>3</sup>    | 0.2  | 2  | 联合一车间 N 装置 |
| 22 | 闪蒸塔塔顶采出罐   | 容积  | m <sup>3</sup>    | 8.4  | 2  | 联合一车间 N 装置 |
| 23 | 搪玻璃储罐      | 容积  | m <sup>3</sup>    | 5    | 2  | 联合一车间 N 装置 |
| 24 | 放空凝液罐      | 容积  | m <sup>3</sup>    | 1.88 | 2  | 联合一车间 N 装置 |
| 25 | 废油储罐       | 容积  | m <sup>3</sup>    | 5    | 1  | 联合一车间 N 装置 |
| 26 | 甲苯分层罐      | 容积  | m <sup>3</sup>    | 1.5  | 1  | 联合一车间 N 装置 |
| 27 | 甲苯水洗搪瓷釜    | 容积  | m <sup>3</sup>    | 2.16 | 2  | 联合一车间 N 装置 |
| 28 | 碱液罐        | 容积  | m <sup>3</sup>    | 60   | 1  | 联合一车间 N 装置 |
| 29 | 碱液吸收塔      | 处理量 | m <sup>3</sup> /h | 15   | 1  | 联合一车间 N 装置 |
| 30 | 水吸收塔       | 处理量 | m <sup>3</sup> /h | 15   | 3  | 联合一车间 N 装置 |
| 31 | 水洗甲苯罐      | 容积  | m <sup>3</sup>    | 5    | 2  | 联合一车间 N 装置 |
| 32 | 搪玻璃反应罐     | 容积  | m <sup>3</sup>    | 2    | 1  | 联合一车间 N 装置 |
| 33 | 搪瓷反应釜      | 容积  | m <sup>3</sup>    | 2    | 2  | 联合一车间 N 装置 |
| 34 | DIBP 精制罐   | 容积  | m <sup>3</sup>    | 0.65 | 1  | 联合一车间 N 装置 |
| 35 | DIBP 精制罐   | 容积  | m <sup>3</sup>    | 0.49 | 1  | 联合一车间 N 装置 |
| 36 | DNBP 精制罐   | 容积  | m <sup>3</sup>    | 0.53 | 1  | 联合一车间 N 装置 |
| 37 | TBP 精制罐    | 容积  | m <sup>3</sup>    | 1.2  | 1  | 联合一车间 N 装置 |
| 38 | 粗甲苯储罐      | 容积  | m <sup>3</sup>    | 11.7 | 1  | 联合一车间 N 装置 |
| 39 | 己烷脱水塔      | 处理量 | m <sup>3</sup> /h | 0.3  | 2  | 联合一车间 N 装置 |
| 40 | 甲苯脱水塔      | 处理量 | m <sup>3</sup> /h | 0.15 | 11 | 联合一车间 N 装置 |
| 41 | 精 TiCl4 储罐 | 容积  | m <sup>3</sup>    | 11.7 | 2  | 联合一车间 N 装置 |

|    |                   |     |                   |      |   |            |
|----|-------------------|-----|-------------------|------|---|------------|
| 42 | 精己烷储罐             | 容积  | m <sup>3</sup>    | 4.2  | 2 | 联合一车间 N 装置 |
| 四  | 联合二车间 1 号楼催化剂生产单元 |     |                   |      |   |            |
| 1  | DIBP 精制罐          | 容积  | m <sup>3</sup>    | 0.96 | 1 | 联合二车间 1 号楼 |
| 2  | DNBP 精制罐          | 容积  | m <sup>3</sup>    | 0.96 | 1 | 联合二车间 1 号楼 |
| 3  | ECP 精制罐           | 容积  | m <sup>3</sup>    | 0.96 | 1 | 联合二车间 1 号楼 |
| 4  | TBP 精制罐           | 容积  | m <sup>3</sup>    | 1.55 | 1 | 联合二车间 1 号楼 |
| 5  | 白油精制罐             | 容积  | m <sup>3</sup>    | 2.3  | 1 | 联合二车间 1 号楼 |
| 6  | 粗 ECP 罐           | 容积  | m <sup>3</sup>    | 5    | 1 | 联合二车间 1 号楼 |
| 7  | 粗 TBP 罐           | 容积  | m <sup>3</sup>    | 5    | 1 | 联合二车间 1 号楼 |
| 8  | 粗白油罐              | 容积  | m <sup>3</sup>    | 5    | 1 | 联合二车间 1 号楼 |
| 9  | 氮气储罐              | 容积  | m <sup>3</sup>    | 80   | 1 | 联合二车间 1 号楼 |
| 10 | 己烷储罐              | 容积  | m <sup>3</sup>    | 80.6 | 1 | 联合二车间 1 号楼 |
| 11 | 己烷脱水塔             | 处理量 | m <sup>3</sup> /h | 0.3  | 3 | 联合二车间 1 号楼 |
| 12 | 己烷脱水塔             | 处理量 | m <sup>3</sup> /h | 0.4  | 1 | 联合二车间 1 号楼 |
| 13 | 己烷原料罐             | 容积  | m <sup>3</sup>    | 12.3 | 1 | 联合二车间 1 号楼 |
| 14 | 甲苯储罐              | 容积  | m <sup>3</sup>    | 80.6 | 1 | 联合二车间 1 号楼 |
| 15 | 甲苯脱水塔             | 处理量 | m <sup>3</sup> /h | 0.25 | 9 | 联合二车间 1 号楼 |
| 16 | 甲苯脱水塔             | 处理量 | m <sup>3</sup> /h | 0.3  | 1 | 联合二车间 1 号楼 |
| 17 | 精 DIBP 罐          | 容积  | m <sup>3</sup>    | 1    | 1 | 联合二车间 1 号楼 |
| 18 | 精 DNBP 罐          | 容积  | m <sup>3</sup>    | 1    | 1 | 联合二车间 1 号楼 |
| 19 | 精 ECP 罐           | 容积  | m <sup>3</sup>    | 1    | 1 | 联合二车间 1 号楼 |
| 20 | 精 TBP 罐           | 容积  | m <sup>3</sup>    | 1.6  | 1 | 联合二车间 1 号楼 |
| 21 | 精环氧氯丙烷罐           | 容积  | m <sup>3</sup>    | 1.55 | 1 | 联合二车间 1 号楼 |
| 22 | 精己烷罐              | 容积  | m <sup>3</sup>    | 12.3 | 1 | 联合二车间 1 号楼 |
| 23 | 精甲苯罐              | 容积  | m <sup>3</sup>    | 12.3 | 2 | 联合二车间 1 号楼 |
| 24 | 精乙醇储罐             | 容积  | m <sup>3</sup>    | 2.3  | 1 | 联合二车间 1 号楼 |
| 25 | 四氯化钛储罐            | 容积  | m <sup>3</sup>    | 80.6 | 2 | 联合二车间 1 号楼 |
| 26 | 四氯化钛原料罐           | 容积  | m <sup>3</sup>    | 12.3 | 1 | 联合二车间 1 号楼 |
| 27 | 正硅酸乙酯储罐           | 容积  | m <sup>3</sup>    | 2.1  | 1 | 联合二车间 1 号楼 |
| 28 | 正硅酸乙酯储罐           | 容积  | m <sup>3</sup>    | 2    | 2 | 联合二车间 1 号楼 |
| 29 | BCE 催化剂合成釜        | 容积  | m <sup>3</sup>    | 8.3  | 1 | 联合二车间 1 号楼 |
| 30 | BCE 催化剂溶解釜        | 容积  | m <sup>3</sup>    | 5.8  | 1 | 联合二车间 1 号楼 |
| 31 | BCE 催化剂洗涤釜        | 容积  | m <sup>3</sup>    | 5.3  | 1 | 联合二车间 1 号楼 |
| 32 | BCE 碱液周转釜         | 容积  | m <sup>3</sup>    | 3.6  | 1 | 联合二车间 1 号楼 |
| 33 | BCE 浆液调合釜         | 容积  | m <sup>3</sup>    | 8.3  | 1 | 联合二车间 1 号楼 |
| 34 | DIBP 计量罐          | 容积  | m <sup>3</sup>    | 0.1  | 1 | 联合二车间 1 号楼 |
| 35 | DNBP 计量罐          | 容积  | m <sup>3</sup>    | 0.1  | 1 | 联合二车间 1 号楼 |

|    |                   |     |                   |       |   |            |
|----|-------------------|-----|-------------------|-------|---|------------|
| 36 | ECP 计量罐           | 容积  | m <sup>3</sup>    | 0.2   | 1 | 联合二车间 1 号楼 |
| 37 | NG 催化剂抽干釜         | 容积  | m <sup>3</sup>    | 1.56  | 2 | 联合二车间 1 号楼 |
| 38 | NG 淤浆配置釜          | 容积  | m <sup>3</sup>    | 3.8   | 1 | 联合二车间 1 号楼 |
| 39 | N 催化剂合成釜          | 容积  | m <sup>3</sup>    | 8.3   | 2 | 联合二车间 1 号楼 |
| 40 | N 催化剂洗涤釜          | 容积  | m <sup>3</sup>    | 5.3   | 2 | 联合二车间 1 号楼 |
| 41 | N 催化剂预热釜          | 容积  | m <sup>3</sup>    | 4.6   | 1 | 联合二车间 1 号楼 |
| 42 | TBP 计量罐           | 容积  | m <sup>3</sup>    | 0.65  | 1 | 联合二车间 1 号楼 |
| 43 | 苯酐加料罐             | 容积  | m <sup>3</sup>    | 0.075 | 1 | 联合二车间 1 号楼 |
| 44 | 催化剂掺合釜            | 容积  | m <sup>3</sup>    | 4     | 2 | 联合二车间 1 号楼 |
| 45 | 催化剂抽干釜            | 容积  | m <sup>3</sup>    | 1.56  | 1 | 联合二车间 1 号楼 |
| 46 | 甲苯计量罐             | 容积  | m <sup>3</sup>    | 2.5   | 1 | 联合二车间 1 号楼 |
| 47 | 甲苯计量罐             | 容积  | m <sup>3</sup>    | 0.095 | 1 | 联合二车间 1 号楼 |
| 48 | 甲苯乙醇计量罐           | 容积  | m <sup>3</sup>    | 0.1   | 1 | 联合二车间 1 号楼 |
| 49 | 溶解釜               | 容积  | m <sup>3</sup>    | 5.8   | 2 | 联合二车间 1 号楼 |
| 50 | 四氯化钛计量罐           | 容积  | m <sup>3</sup>    | 2.1   | 1 | 联合二车间 1 号楼 |
| 51 | 四氯化钛计量罐           | 容积  | m <sup>3</sup>    | 4     | 1 | 联合二车间 1 号楼 |
| 52 | 四氯化钛计量罐           | 容积  | m <sup>3</sup>    | 3     | 1 | 联合二车间 1 号楼 |
| 53 | 洗涤压滤釜             | 容积  | m <sup>3</sup>    | 8.4   | 1 | 联合二车间 1 号楼 |
| 54 | 乙醇计量罐             | 容积  | m <sup>3</sup>    | 0.63  | 1 | 联合二车间 1 号楼 |
| 55 | 乙醇计量罐             | 容积  | m <sup>3</sup>    | 0.2   | 1 | 联合二车间 1 号楼 |
| 56 | 振动筛               | 处理量 | kg/h              | 41.67 | 3 | 联合二车间 1 号楼 |
| 57 | 正硅酸乙酯计量罐          | 容积  | m <sup>3</sup>    | 0.2   | 1 | 联合二车间 1 号楼 |
| 58 | 正硅酸乙酯计量罐          | 容积  | m <sup>3</sup>    | 0.1   | 1 | 联合二车间 1 号楼 |
| 59 | 四氯化钛精馏塔           | 处理量 | L/h               | 1500  | 1 | 联合二车间 1 号楼 |
| 60 | 四氯化钛精馏塔           | 处理量 | L/h               | 2200  | 1 | 联合二车间 1 号楼 |
| 61 | 水解釜               | 容积  | m <sup>3</sup>    | 5     | 3 | 联合二车间 1 号楼 |
| 62 | 水解釜               | 容积  | m <sup>3</sup>    | 3.8   | 1 | 联合二车间 1 号楼 |
| 63 | 水吸收釜              | 容积  | m <sup>3</sup>    | 5     | 1 | 联合二车间 1 号楼 |
| 64 | 水吸收塔              | 容积  | m <sup>3</sup>    | 2     | 2 | 联合二车间 1 号楼 |
| 五  | 联合二车间 2 号楼催化剂生产单元 |     |                   |       |   |            |
| 1  | 粗环氧氯丙烷罐           | 容积  | m <sup>3</sup>    | 1.55  | 1 | 联合二车间 2 号楼 |
| 2  | 粗磷酸三丁酯罐           | 容积  | m <sup>3</sup>    | 1.55  | 2 | 联合二车间 2 号楼 |
| 3  | 粗磷酸三丁酯罐           | 容积  | m <sup>3</sup>    | 5     | 1 | 联合二车间 2 号楼 |
| 4  | 粗正硅酸乙酯罐           | 容积  | m <sup>3</sup>    | 1.55  | 1 | 联合二车间 2 号楼 |
| 5  | 分子筛脱水塔            | 处理量 | m <sup>3</sup> /h | 0.25  | 9 | 联合二车间 2 号楼 |
| 6  | 分子筛脱水塔            | 处理量 | m <sup>3</sup> /h | 0.35  | 1 | 联合二车间 2 号楼 |
| 7  | 精磷酸三丁酯罐           | 容积  | m <sup>3</sup>    | 1.55  | 1 | 联合二车间 2 号楼 |

|    |          |    |                |      |   |            |
|----|----------|----|----------------|------|---|------------|
| 8  | 精正硅酸乙酯罐  | 容积 | m <sup>3</sup> | 1.55 | 1 | 联合二车间 2 号楼 |
| 9  | 乙醇罐      | 容积 | m <sup>3</sup> | 4.1  | 1 | 联合二车间 2 号楼 |
| 10 | 合成釜      | 容积 | m <sup>3</sup> | 8.3  | 4 | 联合二车间 2 号楼 |
| 11 | 环氧氯丙烷计量罐 | 容积 | m <sup>3</sup> | 0.18 | 1 | 联合二车间 2 号楼 |
| 12 | 甲苯计量罐    | 容积 | m <sup>3</sup> | 2.66 | 1 | 联合二车间 2 号楼 |
| 13 | 浆液掺合釜    | 容积 | m <sup>3</sup> | 8.09 | 2 | 联合二车间 2 号楼 |
| 14 | 浆液中转釜    | 容积 | m <sup>3</sup> | 3.92 | 2 | 联合二车间 2 号楼 |
| 15 | 磷酸三丁酯计量罐 | 容积 | m <sup>3</sup> | 0.4  | 1 | 联合二车间 2 号楼 |

#### 4.1 生产工艺

车间使用氯化镁、甲苯、己烷、四氯化钛等原料生产催化剂，催化剂工艺过程可以简述为催化剂合成、洗涤、干燥、掺合包装，生产工艺流程见图 11。

催化剂生产过程中不直接使用水，不产生工业废水。

涉 VOCs 物料的生产过程中所有使用的釜、罐、塔等设备全部使用惰性气体氮气进行保护，所有物料及产成品的传输方式均使用氮气或泵通过密闭管道进行输送，所有含 VOCs 的生产废气均进行统一收集，经过废气处理装置处理合格后达标排放。

奥达有燃气锅炉 2 台，主要为全厂生产提供蒸汽，锅炉运行根据生产负荷进行调整，并严格按照排污许可要求，每月对氮氧化物进行取样检测。

各装置废水（主要为生活污水）经收集后进入污水处理站，采用“MBBR+二沉池”工艺进行处理后排放至次渠污水处理厂。

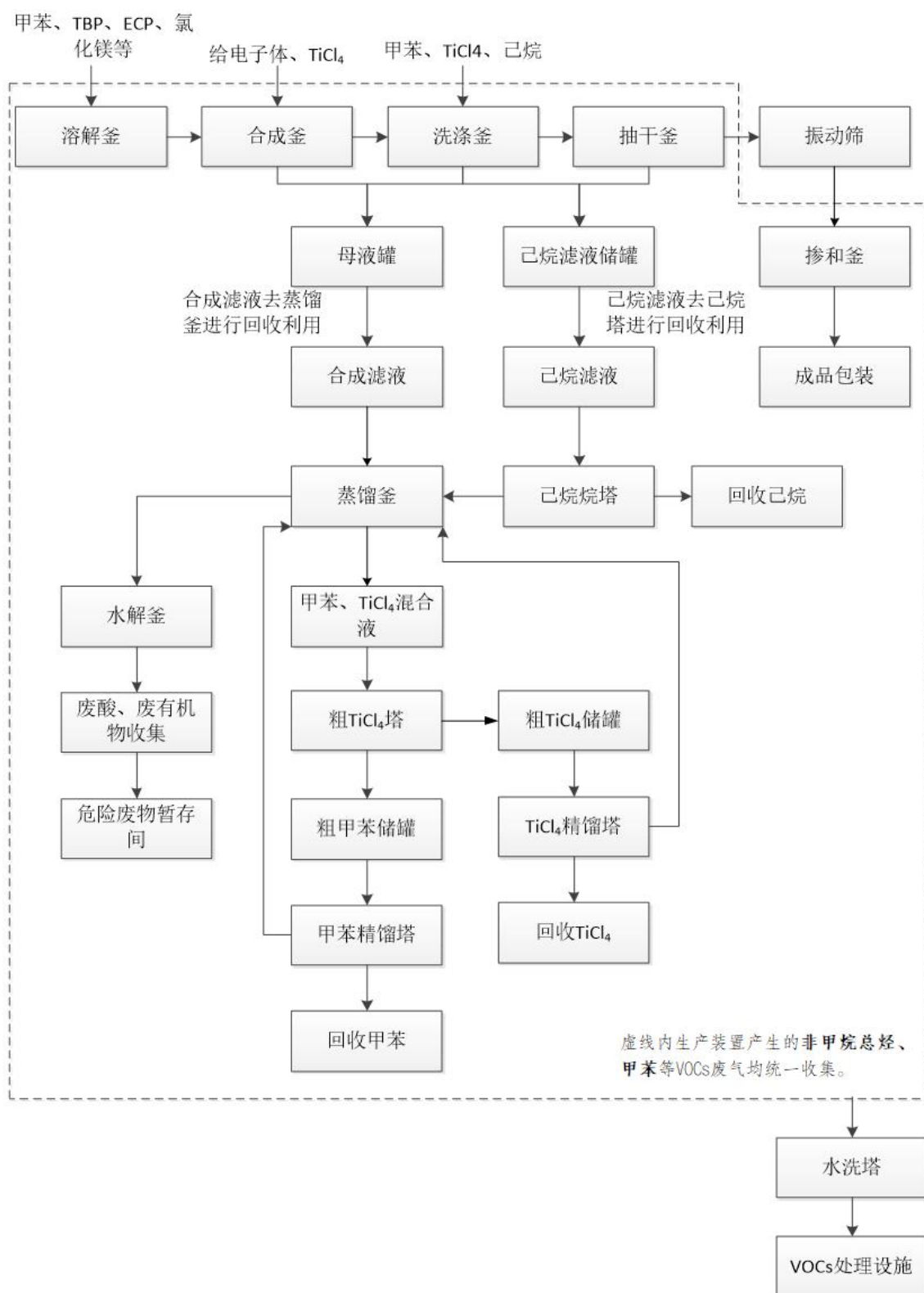


图 11 生产工艺流程图

## 4.2 产排污环节

奥达生产过程中会产生废气、废水和固废等污染物。

### 4.2.1 废气排放情况

奥达废气产生的环节分别为燃气锅炉产生的燃烧废气，以及聚烯烃催化剂生产过程中排放的工艺废气、危险废物贮存库废气和研磨装置废气。

燃气锅炉已完成低氮改造，使用低氮燃烧器加烟气外循环的方法减少锅炉运行过程中产生的氮氧化物。

工艺废气先经过各生产装置预处理，经过统一收集储存于气柜中，最后进入废气处理装置处理，该股废气组成为苯、二甲苯及苯乙烯，即为可能产生的有毒有害物质。该废气处理装置采用压缩冷凝、膜富集和三级活性炭变压吸附三种技术手段，三种技术串联使用，经处理后的工艺废气排放指标达到北京市地方标准限值要求。

危险废物贮存库废气经收集+沸石处理工艺达标排放，研磨装置废气经脉冲布袋除尘器+水过滤处理工艺达标排放。

### 4.2.2 废水排放情况

奥达废水的主要来源为生活污水、装置清洗地面用水和初期雨水等，均无有毒有害物质，废水经过收集后统一进入污水处理站进行处理。污水处理站采用“均质+MBBR+二沉池”工艺，污水处理能力为 10t/h，处理后排放至次渠污水处理厂。

### 4.2.3 固废产生情况

各装置生产过程中产生的固体废物主要有危险废物和一般工业固体废物，其中危险废物共 9 大类 15 小类，包括

废有机溶剂、废矿物油、含汞废物、含铅废物、废酸、废碱、废石棉、其他废物、废催化剂和废镍触媒；一般工业固体废物包括废包装物等，2024 年共产生固体废物 3460.266 吨。

5. 涉及的有毒有害物质

根据《重点监管单位土壤污染隐患排查指南（试行）》中规定的有毒有害物质，对照有毒有害物质的判定依据进行比对，并结合对企业的原辅材料、产品、工艺流程、排污节点等各方面的分析和现场踏勘，排查情况见表 5，经排查确定了奥达生产经营活动涉及的有毒有害物质清单（见表 6）。

表 5 有毒有害物质排查表

| 序号 | 有毒有害物质所属类别                           | 排查情况               |
|----|--------------------------------------|--------------------|
| 1  | 列入《中华人民共和国水污染防治法》规定的有毒有害水污染物名录的污染物   | 不涉及                |
| 2  | 列入《中华人民共和国大气污染防治法》规定的有毒有害大气污染物名录的污染物 | 不涉及                |
| 3  | 《中华人民共和国固体废物污染环境防治法》规定的危险废物          | 涉及                 |
| 4  | 国家和地方建设用地土壤污染风险管控标准管控的污染物            | 二甲苯、苯乙烯（废气组成部分）    |
| 5  | 列入优先控制化学品名录内的物质                      | 苯（废气组成部分）、甲苯（生产原料） |
| 6  | 其他根据国家法律法规有关规定应当纳入有毒有害物质管理的物质        | 不涉及                |

表 6 有毒有害物质清单

| 序号 | 有毒有害物质 | 储存位置     | 装卸方式       | 转运方式 | 有毒有害物质所属类别                |
|----|--------|----------|------------|------|---------------------------|
| 1  | 苯      | 废气处理设施气柜 | /          | 地上管道 | 列入优先控制化学品名录（第二批）内的物质      |
| 2  | 甲苯     | 原料罐区     | 专业运输罐车运至罐区 | 地上管道 | 列入优先控制化学品名录（第二批）内的物质      |
| 3  | 二甲苯    | 废气处理设施气柜 | /          | 地上管道 | 国家和地方建设用地土壤污染风险管控标准管控的污染物 |
| 4  | 苯乙烯    | 废气处理设施气柜 | /          | 地上管道 | 国家和地方建设用地土壤污染风险管控标准管控的污染物 |

|    |       |       |   |              |                             |
|----|-------|-------|---|--------------|-----------------------------|
| 5  | 废有机溶剂 | 危废贮存库 | / | 委托有资质的处置单位处理 | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 6  | 废矿物油  | 危废贮存库 | / | 委托有资质的处置单位处理 | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 7  | 废酸    | 危废贮存库 | / | 委托有资质的处置单位处理 | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 8  | 含汞废物  | 危废贮存库 | / | 委托有资质的处置单位处理 | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 9  | 含铅废物  | 危废贮存库 | / | 委托有资质的处置单位处理 | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 10 | 含钛固废  | 危废贮存库 | / | 委托有资质的处置单位处理 | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 11 | 废碱    | 危废贮存库 | / | 委托有资质的处置单位处理 | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 12 | 废催化剂  | 危废贮存库 | / | 委托有资质的处置单位处理 | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 13 | 废石棉   | 危废贮存库 | / | 委托有资质的处置单位处理 | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 14 | 其他废物  | 危废贮存库 | / | 委托有资质的处置单位处理 | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 15 | 废镍触媒  | 危废贮存库 | / | 委托有资质的处置单位处理 | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |

## 6. 污染防治措施

### 6.1 废气

奥达共设置有组织废气排放口 5 个，分别为工艺废气排放口、5#锅炉燃烧烟气排放口、6#锅炉燃烧烟气排放口、研磨车间废气排放口、危险废物贮存库尾气排放口。

工艺废气排放口主要污染物包括非甲烷总烃、甲苯、颗粒物等。该排放口按照排污许可要求采用手工监测形式，数

据无超标情况。

5#锅炉燃烧烟气排放口和 6#燃烧烟气排放口主要污染物均为氮氧化物、二氧化硫、颗粒物及烟气黑度，净化工艺为低氮燃烧。两个锅炉燃烧废气排放口主要监测方式为手工监测。

研磨车间废气排放口主要污染物为颗粒物，净化工艺为脉冲袋式除尘器+水过滤；危险废物贮存库尾气排放口主要污染物为非甲烷总烃，净化工艺为沸石吸附，两个废气排放口均采用手工监测。

具体处理方式见表 7。

表 7 废气排放情况一览表

| 排放来源         | 检测污染物                | 废气处理方式        |
|--------------|----------------------|---------------|
| 工艺废气总排口      | 苯、甲苯、二甲苯、苯系物、氯化氢、颗粒物 | VOCs 尾气集中处理装置 |
| 5#锅炉燃烧烟气排放口  | 氮氧化物、二氧化硫、颗粒物、黑度     | 低氮燃烧器+烟气外循环   |
| 6#锅炉燃烧烟气排放口  | 氮氧化物、二氧化硫、颗粒物、黑度     | 低氮燃烧器+烟气外循环   |
| 研磨车间废气排放口    | 颗粒物                  | 脉冲袋式除尘器+水过滤   |
| 危险废物贮存库尾气排放口 | 非甲烷总烃                | 收集+沸石吸附       |

奥达根据 VOCs 装置技术特点，研发制定了适合自身的有机废气的排放控制与回收的技术方案。采用低压缓冲气柜方案，缓冲气柜采用德国技术，工作压力为 200Pa，设置 500m<sup>3</sup>气柜用于装置工艺气储存，工艺废气通过压缩冷凝、膜处理、三级活性炭吸附三个流程，处理后的工艺废气通过 26 米高烟筒达标排放。废气处理工艺流程见图 12。

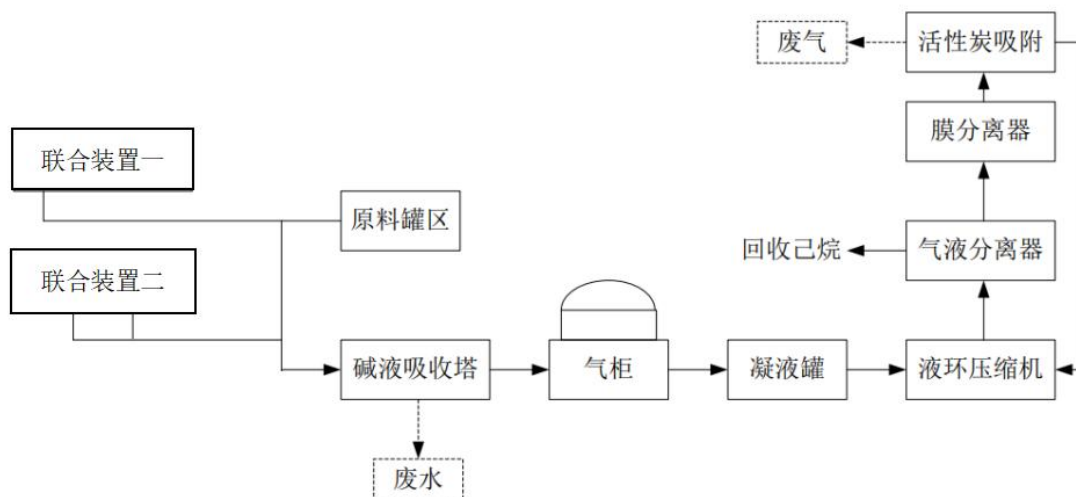


图 12 废气处理工艺流程图

## 6.2 废水

2024 年 1 月至 12 月，奥达生产装置废水排放量为 32194 吨。废水排入厂区污水处理站集中处理，升级改造后的污水处理站，进水水量设计为 10t/h，运行时间 8400 小时，采用“均质+MBBR+二沉池”的废水处理工艺。废水经处理合格后由二沉池排入北京北排京津冀水环境科技发展有限公司次渠污水处理厂集中处理。具体工艺流程见下图 13。

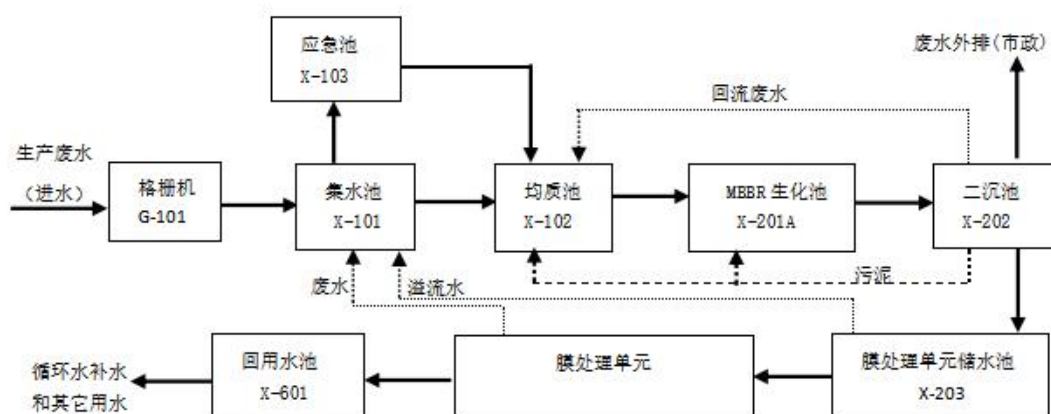


图 13 废水处理工艺流程图

## 6.3 固体废物

奥达生产过程产生危险废物和一般固体废物，2024 年 1

月至 12 月共产生固体废物 3460.266 吨，产生的固体废物每日集中存放于独立的贮存库，委托北京生态岛科技有限责任公司、北京金隅琉水环保科技有限公司、北京鼎泰鹏宇环保科技有限公司、山西夏县众为蓝图环保科技有限公司、北京兴青红精细化学品科技有限公司五家固体废物处置单位进行合规处置。

#### 6.4 防渗情况

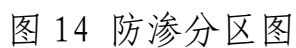
2024 年 6 月，住房和城乡建设部办公厅发布《石油化工工程防渗技术规范（局部修订征求意见稿）》公开征求意见，奥达结合现行规范和征求意见稿进行比对排查后，厂区内西办公区、综合楼、宿舍楼等区域属非防渗区，除这些区域以外属于防渗区，防渗分区图见图 14。

联合一车间及其工艺设备区、联合二车间及其工艺设备区属于重点防渗区，地面均采用三七灰土夯实，混凝土面层，其中装置内设备储罐区域采用混凝土基层、环氧树脂防渗面层。

动力环保车间盐水罐区属于重点防渗区，地面采用三七灰土夯实，混凝土防渗面层。

原料罐区储罐区域属于重点防渗区，原料罐区整体区域防渗共分为四个区域：卸车岛区域行车区域地面为 C30P8 抗渗混凝土面层，卸车岛输送泵四周设置防渗导流槽；甲苯、乙醇、己烷储罐区域地面采用 C30 P8 纤维抗渗混凝土，基础底部设置聚乙烯抗渗防护膜；四氯化钛储罐区域基层为 C30P8 纤维抗渗混凝土，面层为乙烯基玻璃鳞片防腐面层；西侧输送泵区域设置防渗围堰，地面面层为 C30P8 抗渗混凝

危废贮存库和一般固废暂存点属于重点防渗区，地面均采用素土夯实、浇混凝土垫层、三元乙丙防渗层及抗渗混凝土面层的防渗方式。



## 7. 历史土壤和地下水环境监测信息

2018 年至 2024 年，奥达连续 7 年组织开展了土壤和地下水隐患排查和自行监测等工作，布点监测信息见表 8 和图 15 到图 17。

表 8 已开展的土壤和地下水布点采样信息汇总表

| 项目   | 年份                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 土壤 | 土壤气 | 地下水 |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|-----|
| 布点数量 | 2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10 | —   | 3   |
|      | 2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10 | —   | 3   |
|      | 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 15 | 5   | 4   |
|      | 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 19 | 6   | 8   |
|      | 2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 17 | 26  | 11  |
|      | 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12 | 10  | 11  |
|      | 2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9  | 9   | 12  |
| 采样数量 | 2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 27 | —   | 4   |
|      | 2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16 | —   | 4   |
|      | 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 27 | 11  | 5   |
|      | 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 37 | 12  | 8   |
|      | 2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 46 | 44  | 17  |
|      | 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 21 | 27  | 39  |
|      | 2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 29 | 27  | 27  |
| 测试项目 | <p>2018 至 2021 年：<b>土壤和地下水</b>监测指标 A1 类-重金属 8 种、A2 类-重金属与元素 8 种、A3 类-无机物 2 种、B1 类-挥发性有机物 16 种、B2 类-挥发性有机物 9 种、B3 类-半挥发性有机物 1 种、B4 类-半挥发性有机物 4 种及 C1 类-多环芳烃类 15 种，C4-多氯联苯 12 种。<b>土壤气</b>检测指标为《土壤环境质量 建设用地土壤污染风险管控标准（试行）》（GB 36600-2018）中的挥发性有机物。</p> <p>2022、2023 年：<b>土壤</b>监测指标包括《土壤环境质量 建设用地土壤污染风险管控标准（试行）》（GB 36600-2018）表 1 基本项目，《北京市重点企业土壤环境自行监测技术指南（暂行）》附录 2 中 266 专用化学品制造行业特征污染物，以及四氢呋喃、三丁基磷酸酯、邻苯二甲酸二正丁酯（DNBP）和邻苯二甲酸二异丁酯（DIBP）等关注污染物，重复项只测一次。<b>地下水</b>检测指标为《地下水质量标准》（GB/T 14848）表 1（微生物指标、放射性指标除外），《地下水环境监测技术规范》（HJ164-2020）附录 F 中的专用化学品制造特征项目，四氢呋喃、三丁基磷酸酯、邻苯二甲酸二异丁酯（DIBP）、邻苯二甲酸二正丁酯（DNBP）等，重复项只测一次。<b>土壤气</b>检测指标为《土壤环境质量 建设用地土壤污染风险管控标准（试行）》（GB 36600-2018）中的挥发性有机物。</p> <p>2024 年：<b>土壤</b>监测指标包括《土壤环境质量 建设用地土壤污染风险管控标准（试行）》（GB 36600-2018）表 1 基本项目，挥发性有机物、半挥发性有机物，以及 pH、石油烃（C10-C40）、氟化物，以及四氢呋喃、三丁基磷酸酯、邻苯二甲酸二正丁酯（DNBP）和邻苯二甲酸二异丁酯（DIBP）等关注污染物。</p> |    |     |     |

| 项目   | 年份                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 土壤 | 土壤气 | 地下水                                                                                                            |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|----------------------------------------------------------------------------------------------------------------|
|      | 地下水检测指标为《地下水质量标准》(GB/T 14848)表 1 (微生物指标、放射性指标除外), 挥发性有机物、半挥发性有机物, 以及石油类、石油烃 (C10-C40)、四氢呋喃、三丁基磷酸酯、邻苯二甲酸二异丁酯 (DIBP)、邻苯二甲酸二正丁酯 (DNBP) 等关注污染物。土壤气检测指标为挥发性有机物。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |     |                                                                                                                |
| 项目   | 历史上是否超标                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 土壤 | 土壤气 | 地下水                                                                                                            |
| 超标情况 | 均未超标                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ✓  | ✓   |                                                                                                                |
|      | 存在超标                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -  | -   | ✓                                                                                                              |
|      | 超标物质                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -  | -   | pH、浑浊度 (NTU)、铝、砷、钠、锰、铁、溶解性总固体、氟化物、氨氮 (以氮计)、总硬度 (碳酸钙计)、硫酸盐、高锰酸盐指数 (以 O <sub>2</sub> 计)、硫化物、氯化物、挥发酚、氯乙烷、四氢呋喃、石油类 |
| 超标原因 | <p>① 对比地下池体与邻近地下水监测井监测指标浓度值, 可排除地下池体渗漏导致砷、锰、氟化物超标的可能。对比一车间沉降池和下游监测井 GW6 的指标浓度, 对比雨污收集池、工艺废水收集池与下游监测井 GW9 的监测指标, 二者没有明显相关性。</p> <p>② 地下水背景值偏高。原因有三, 一是上游背景井 GW8 中 2021 年的监测结果显示浑浊度、总硬度、锰、氟化物、硫酸盐和硫化物超标, 2022 年浑浊度、总硬度和锰超标, 2023 年, TDS、总硬度、锰、砷、铁超标。二是根据《北京市水资源公报》中内容, IV~V 类地下水主要分布在丰台、房山、大兴、通州和中心城区。三是, 北京奥达从 1993 年建厂投产以来所使用的原辅料均不涉及超标的污染物锰、氟化物。因此, 上述指标超标与区域地下水质量背景有关。</p> <p>③ 外源物质影响。2022 年, 砷超标的 GW1/3/10 均为与厂界边缘, 2023 年, 上游背景井 GW8 中砷超标, 砷的浓度梯度呈现出与地下水流方向一致的现象。并且北京奥达生产环节均不涉及砷, 因此, 砷超标不是来自企业自身生产污染, 而是来自厂外上游。来源有两种可能: 一是, 可排除废水处理设施及通惠河西排干渠地表水直接导致场内地下水砷超标的可能。但上游渠水入渗-径流至厂区的过程中, 酸碱度、氧化还原环境变化可能导致地下水中砷的迁移富集。二是, 企业位于光机电一体化产业基地, 基地 2001 年成立, 重点发展微电子、光电子、先进装备制造业、智能仪器仪表、激光技术、数控机床、印刷机械、医疗设备、半导体材料等主导产业。砷是硬质合金和半导体的原辅料之一。因此, 上游地块污染也是可能的来源。</p> <p>④ 2023 年地下水中出现挥发酚超标情况。2023 年 8 月第一批地下水样品分析结果显示, 8 眼水井中挥发酚超 III 类, 分布于生产区、生活区及承压水中, 因为生产中不涉及挥发酚类物质, 为此加密监测一次挥发酚, 仅 GW6 超标, 其他均井均未超标, 10 月份进行第二批次采样, 仅有两眼井有检出, 其他井均未检出。通过本企业和周边企业生产信息、地下水流场、实验室质控等多角度分析, 挥发酚的分布没有规律。地下池体中含有挥发酚, 但浓度明显低于周边地下水, 建议后续继续水质监测, 关注挥发酚指标结果。</p> <p>⑤ 氯乙烷、四氢呋喃、石油类超标。2024 年, 在联合二车间西南新建地下水井 GW6 中, 参考美国新泽西《Ground Water Quality Standards》Class II-A 标准值 (氯乙烷 5 μg/L、四氢呋喃 10 μg/L), 氯乙烷和四氢呋喃超标, 经过风险分析, 远小于人体健康可接受的非致癌风险水平 1, 因此健康风险可接受; 自备井中石油类检出, 采用《生活饮用水卫生标准》(GB5749-2022) (石油类 0.05mg/L) 超标 0.2 倍。其中四氢呋喃是北京奥达曾用的原辅料之一, 已</p> |    |     |                                                                                                                |

| 项目 | 年份                                                            | 土壤 | 土壤气 | 地下水 |
|----|---------------------------------------------------------------|----|-----|-----|
|    | 弃用，多年监测未检出，今年在新建地下水井 GW6 检出，该井位于四氢呋喃历史储存和使用的车间附近，不能排除地下池体的影响。 |    |     |     |

备注：①土壤对比《土壤环境质量 建设用地土壤污染风险管控标准（试行）》（GB36600-2018）第二类用地筛选值。②地下水对比《地下水质量标准》（GB/T14848-2017）Ⅲ类水体。③土壤气对比《污染场地挥发性有机物调查与风险评估技术导则》（DB11/T1278-2015）工商业标准限值。

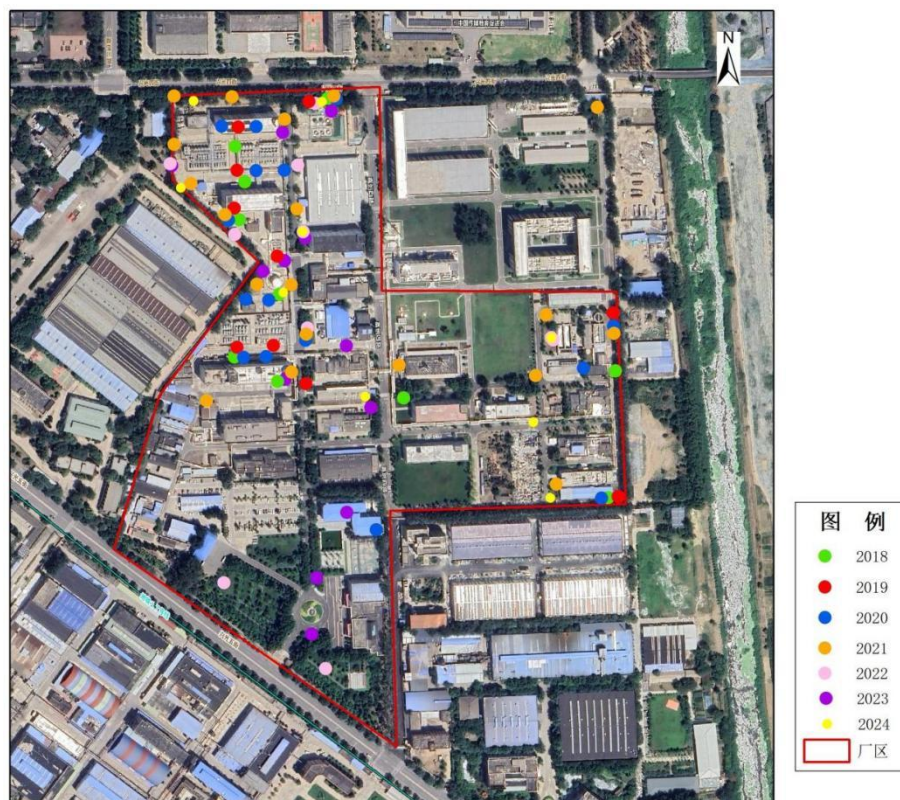


图 13 土壤历史采样点位分布图



图 14 土壤气井空间分布示意图



图 15 地下水井空间分布示意图

根据 2018 年至 2024 年土壤和地下水自行监测数据分析结果，土壤和土壤气均未出现超标情况，地下水中铝、砷、钠、锰、浊度、溶解性总固体、氟化物、氨氮(以氮计)、总硬度（碳酸钙计）、硫酸盐、高锰酸盐指数（以 O<sub>2</sub>计）、硫化物、挥发酚等物质出现了超过《地下水质量标准》（GB/T 14848-2017）中Ⅲ类水体标准的情况。对于本次土壤污染隐患排查，应关注因池体老化、破损、裂缝造成的泄漏、渗漏等情况导致的土壤污染及监测井维护情况。

三、排查方法

1. 资料收集

本次隐患排查工作主要收集了企业基本信息、生产信息、环境管理信息等，还对已有的环境调查、土壤和地下水历史监测情况进行了资料搜集和数据分析，识别企业所在地土壤/地下水背景值，分辨可能由历史生产造成的污染。

收集到奥达的相关资料见表 9。

表 9 资料收集情况一览表

| 序号 | 资料名称         | 收集情况 | 备注 |
|----|--------------|------|----|
| 1  | 平面布置图        | ✓    |    |
| 2  | 环评批复         | ✓    |    |
| 3  | 雨污分流图        | ✓    |    |
| 4  | 生产工艺流程图      | ✓    |    |
| 5  | 勘查、水文资料      | ✓    |    |
| 6  | 全国企业信用信息公示系统 | ✓    |    |
| 7  | 突发环境事件风险评估报告 | ✓    |    |
| 8  | 突发环境事件应急预案   | ✓    |    |
| 9  | 原辅料清单        | ✓    |    |
| 10 | 排污许可证        | ✓    |    |
| 11 | 隐患排查制度       | ✓    |    |
| 12 | 危险废物转移联单     | ✓    |    |

|    |          |   |                       |
|----|----------|---|-----------------------|
| 13 | 环境统计报表   | ✓ |                       |
| 14 | 自行监测报告   | ✓ |                       |
| 15 | 清洁生产报告   | ✓ |                       |
| 16 | 历年隐患排查报告 | ✓ |                       |
| 17 | 历年自行监测报告 | ✓ |                       |
| 18 | 车间设备清单   | ✓ |                       |
| 19 | 其他相关文件   | ✓ | 各车间巡检、排查记录，操作规程，现场警示牌 |

## 2. 人员访谈

根据《重点监管单位土壤污染隐患排查指南（试行）》要求，在收集资料的同时开展了人员访谈，通过访谈，补充了解了企业生产、环境管理等相关信息，包括企业用地历史、储罐区域及地下池体情况、固体废物管理、设施设备运行管理、应急物资管理等情况。人员访谈情况见图 16。

The figure displays six sample interview forms, each containing the following sections:

- 访谈对象 (Interviewee):** Name, Position, Department, and Contact Information.
- 访谈时间 (Interview Time):** Date and Time.
- 访谈地点 (Interview Location):** Location of the interview.
- 访谈内容 (Interview Content):** A series of questions and answers related to environmental management, production history, and safety measures.
- 访谈人 (Interviewer):** Name and Position.
- 备注 (Remarks):** Additional notes or observations.

图 16 人员访谈记录表

## 3. 重点场所或者重点设施设备确定

企业重点场所包括主体工程中的联合一车间、联合二车

间，储运工程中的罐区，辅助工程中的成品库、库房和质检中心，以及环保工程中的污水处理站、废气处理设施、一般工业固废暂存点和危险废物贮存库。

重点设施设备包括储罐，车间内合成、冷冻、抽干和掺合等生产过程的釜、塔、中间储罐及管路，振动磨房的研磨机和振动筛，室外罐组传输泵，各类池体。

表 11 涉及的重点场所或者重点设施设备

| 序号 | 涉及工业活动      |                     | 重点场所或者重点设施设备                                                                        |
|----|-------------|---------------------|-------------------------------------------------------------------------------------|
| 1  | 液体储存        | 储罐类储存设施             | 原料罐区及原辅料储罐、联合一车间室外工艺设备区、联合二车间室外工艺设备区、动力环保车间冷冻盐水罐区                                   |
|    |             | 池体类储存设施             | 联合二车间沉降池、联合一车间沉降池、动力环保车间雨水收集池、动力环保车间集水井、锅炉房北侧锅炉排水中和池、污水处理站均质池、污水处理站 MBBR 池、污水处理站二沉池 |
| 2  | 散装液体转运与厂内运输 | 管道运输                | 合成、冷冻、抽干和掺合等生产过程的管路                                                                 |
|    |             | 传输泵                 | 原料罐区、联合一车间室外工艺设备区、联合二车间室外工艺设备区、动力环保车间冷冻盐水罐区等室外罐组传输泵                                 |
|    |             | 散装液体物料装卸            | 原料罐区卸车平台                                                                            |
| 3  | 货物的储存和传输    | 包装货物的储存和暂存          | 成品库、库房                                                                              |
| 4  | 生产区         |                     | 联合一车间、联合二车间                                                                         |
| 5  | 其他活动区       | 废水排水系统              | 废水排放管路                                                                              |
|    |             | 应急收集设施              | 污水处理站事故池                                                                            |
|    |             | 分析化验室               | 质检中心                                                                                |
|    |             | 一般工业固体废物贮存场和危险废物贮存库 | 一般工业固废暂存点、危险废物贮存库                                                                   |

表 12 污染治理设施日常管理维护情况

| 序号 | 重点设施名称    | 重点设施类型 | 防腐蚀防泄漏设计信息       | 日常管理维护信息     |
|----|-----------|--------|------------------|--------------|
| 1  | 污水处理站     | 污染治理设施 | 建设有防渗层           | 每天进行巡检，有巡检台账 |
| 2  | 废气处理设施    | 污染治理设施 | 撬装式结构，有收集设施      | 每天进行巡检，有巡检台账 |
| 3  | 一般固体废物暂存点 | 污染治理设施 | 建设有防渗层、液体导流槽和收集池 | 每天进行巡检，有巡检台账 |

|   |         |        |                  |              |
|---|---------|--------|------------------|--------------|
| 4 | 危险废物贮存库 | 污染治理设施 | 建设有防渗层、液体导流槽和收集池 | 每天进行巡检，有巡检台账 |
|---|---------|--------|------------------|--------------|

注：重点设施主要包括涉及有毒有害物质的地下储罐、地下管线，以及污染治理设施等。

表 13 重点区域清单

| 序号 | 重点区域名称       | 重点区域类型    | 防腐蚀防泄漏设计信息              | 日常管理维护信息     |
|----|--------------|-----------|-------------------------|--------------|
| 1  | 联合一车间        | 生产装置      | 生产厂房，日常进行设备检查和 LDAR 检测  | 每天进行巡检，有巡检台账 |
| 2  | 联合一车间室外工艺设备区 | 配套室外工艺设备区 | 配套防火堤，日常进行设备检查和 LDAR 检测 | 每天进行巡检，有巡检台账 |
| 3  | 联合二车间 1 号楼   | 生产装置      | 生产厂房，日常进行设备检查和 LDAR 检测  | 每天进行巡检，有巡检台账 |
| 4  | 联合二车间 2 号楼   | 生产装置      | 生产厂房，日常进行设备检查和 LDAR 检测  | 每天进行巡检，有巡检台账 |
| 5  | 联合二车间室外工艺设备区 | 配套室外工艺设备区 | 配套防火堤，日常进行设备检查和 LDAR 检测 | 每天进行巡检，有巡检台账 |
| 6  | 原料罐区         | 储罐区       | 配套防火堤，日常进行设备检查和 LDAR 检测 | 每天进行巡检，有巡检台账 |

注：重点区域主要包括涉及有毒有害物质的生产区、原材料及固体废物的堆存区、储放区和转运区等。

#### 4. 现场排查方法

结合生产实际，重点排查重点场所和重点设施设备是否具有基本的防渗漏、流失、扬散的土壤污染预防功能，以及有关预防土壤污染管理制度建立和执行情况；在发生渗漏、流失、扬散的情况下，是否具有防止污染物进入土壤的设施；是否有能有效、及时发现并处理泄漏、渗漏或者土壤污染的设施或者措施。

#### 四、土壤污染隐患排查

##### 1. 重点物质排查

根据《重点监管单位土壤污染隐患排查指南（试行）》中规定的有毒有害物质，经排查，奥达生产经营活动涉及的有毒有害物质有苯、苯乙烯、甲苯、二甲苯和废有机溶剂、废酸、废碱、其他废物等危险废物。

##### 2. 重点场所、重点设施设备隐患排查

###### 2.1 液体储存

###### 2.1.1 储罐类储存设施

###### （1）储罐基本情况

厂区储罐分布在原料罐区、联合一车间室外工艺设备区、联合二车间室外工艺设备区和动力环保车间冷冻盐水罐区，具体情况见下表 14 及储罐分布图 17、图 18、图 19 和图 20。

表 14 储罐基本情况一览表

| 序号 | 名称   | 储罐类型 | 材质   | 容积 (m³) | 数量 (个) | 储存条件 | 日常检查频率及企业日常管理要求     |
|----|------|------|------|---------|--------|------|---------------------|
| 一  | 原料罐区 |      |      |         |        |      | 班长、岗长轮流巡检，综合 1 次/小时 |
| 1  | 己烷储罐 | 离地   | 单层钢制 | 80      | 1      | 常温   |                     |
| 2  | 乙醇储罐 | 离地   | 单层钢制 | 40      | 1      | 常温   |                     |
| 3  | 甲苯储罐 | 离地   | 单层钢制 | 80      | 1      | 常温   |                     |

|    |              |    |              |      |   |    |           |
|----|--------------|----|--------------|------|---|----|-----------|
| 4  | 四氯化钛储罐       | 离地 | 单层钢制         | 80.3 | 1 | 常温 |           |
| 5  | 四氯化钛储罐       | 离地 | 单层钢制         | 80.3 | 1 | 常温 |           |
| 6  | 检修备用罐        | 离地 | 单层钢制         | 80   | 1 | 常温 |           |
| 二  | 联合一车间室外工艺设备区 |    |              |      |   |    |           |
| 1  | 精甲苯储罐        | 离地 | 单层钢制         | 4.2  | 2 | 常温 | 每天检查 6 次  |
| 2  | 粗甲苯罐         | 离地 | 单层钢制         | 8.4  | 2 | 常温 | 每天检查 12 次 |
| 3  | 精己烷罐         | 离地 | 单层钢制         | 4.2  | 4 | 常温 | 每天检查 12 次 |
| 4  | 精四氯化钛储罐      | 离地 | 单层钢制         | 11.7 | 2 | 常温 | 每天检查 6 次  |
| 5  | 粗四氯化钛罐       | 离地 | 外层钢制<br>内层搪瓷 | 5    | 2 | 常温 | 每天检查 12 次 |
| 6  | 粗四氯化钛罐       | 离地 | 单层钢制         | 12.4 | 2 | 常温 | 每天检查 12 次 |
| 7  | 甲苯四氯化钛储罐     | 离地 | 单层钢制         | 8.4  | 4 | 常温 | 每天检查 12 次 |
| 8  | 回收己烷罐        | 离地 | 单层钢制         | 8.4  | 2 | 常温 | 每天检查 12 次 |
| 9  | 回收己烷罐        | 离地 | 单层钢制         | 25.7 | 4 | 常温 | 每天检查 12 次 |
| 10 | 回收己烷罐        | 离地 | 单层钢制         | 32.3 | 4 | 常温 | 每天检查 6 次  |
| 11 | 回收甲苯罐        | 离地 | 单层钢制         | 12.4 | 2 | 常温 | 每天检查 12 次 |
| 12 | 回收甲苯罐        | 离地 | 单层钢制         | 11.7 | 1 | 常温 | 每天检查 12 次 |
| 13 | 回收四氯化钛罐      | 离地 | 单层钢制         | 12.3 | 2 | 常温 | 每天检查 12 次 |
| 14 | 回收四氯化钛罐      | 离地 | 单层钢制         | 12.4 | 2 | 常温 | 每天检查 12 次 |
| 15 | 合成滤液罐        | 离地 | 外层钢制<br>内层搪瓷 | 10   | 4 | 常温 | 每天检查 12 次 |
| 16 | 原料滤液罐        | 离地 | 单层钢制         | 8.4  | 4 | 常温 | 每天检查 12 次 |
| 17 | 原料罐          | 离地 | 单层钢制         | 11.7 | 4 | 常温 | 每天检查 6 次  |
| 18 | 原料罐          | 离地 | 单层钢制         | 7.6  | 2 | 常温 | 每天检查 6 次  |

|    |              |    |      |      |   |    |                             |
|----|--------------|----|------|------|---|----|-----------------------------|
| 19 | 原料罐          | 离地 | 单层钢制 | 8.4  | 2 | 常温 | 每天检查 6 次                    |
| 20 | 水洗甲苯罐        | 离地 | 单层钢制 | 1.5  | 2 | 常温 | 每天检查 6 次                    |
| 21 | 水洗甲苯罐        | 离地 | 单层钢制 | 5    | 2 | 常温 | 每天检查 6 次                    |
| 22 | 甲苯中间罐        | 离地 | 单层钢制 | 12.3 | 2 | 常温 | 每天检查 6 次                    |
| 23 | 放空缓冲罐        | 离地 | 单层钢制 | 1    | 1 | 常温 | 每天检查 6 次                    |
| 24 | 纯氮气储罐        | 离地 | 单层钢制 | 40   | 1 | 常温 | 每天检查 6 次                    |
| 25 | 己烷滤液罐        | 离地 | 单层钢制 | 32.3 | 4 | 常温 | 每天检查 6 次                    |
| 26 | 己烷滤液罐        | 离地 | 单层钢制 | 25.7 | 4 | 常温 | 每天检查 12 次                   |
| 三  | 联合二车间室外工艺设备区 |    |      |      |   |    |                             |
| 1  | 粗甲苯罐         | 离地 | 单层钢制 | 12.3 | 3 | 常温 | (1 号楼) 班长、岗长轮流巡检, 综合 1 次/小时 |
| 2  | 精甲苯罐         | 离地 | 单层钢制 | 12.3 | 2 | 常温 |                             |
| 3  | 原料罐          | 离地 | 单层钢制 | 12.3 | 1 | 常温 |                             |
| 4  | 原料罐          | 离地 | 单层钢制 | 25.7 | 1 | 常温 |                             |
| 5  | 精己烷罐         | 离地 | 单层钢制 | 12.3 | 1 | 常温 |                             |
| 6  | 合成滤液罐        | 离地 | 单层钢制 | 12.3 | 2 | 常温 |                             |
| 7  | 粗分罐          | 离地 | 单层钢制 | 25.2 | 2 | 常温 |                             |
| 8  | 回收甲苯罐        | 离地 | 单层钢制 | 25.2 | 2 | 常温 |                             |
| 9  | 溶剂收集罐        | 离地 | 单层钢制 | 25.7 | 1 | 常温 |                             |
| 10 | 精水洗甲苯罐       | 离地 | 单层钢制 | 12.3 | 1 | 常温 |                             |
| 11 | 粗水洗甲苯罐       | 离地 | 单层钢制 | 12.3 | 1 | 常温 |                             |
| 12 | 回收四氯化钛罐      | 离地 | 单层钢制 | 12.3 | 2 | 常温 |                             |
| 13 | 回收四氯化钛罐      | 离地 | 单层钢制 | 25.7 | 1 | 常温 |                             |
| 14 | 己烷滤液罐        | 离地 | 单层钢制 | 25.2 | 2 | 常温 |                             |

|    |              |    |         |      |   |      |                |
|----|--------------|----|---------|------|---|------|----------------|
| 15 | 己烷滤液罐        | 离地 | 单层钢制    | 25.7 | 1 | 常温   |                |
| 16 | 回收己烷罐        | 离地 | 单层钢制    | 12.3 | 3 | 常温   |                |
| 17 | 放空缓冲罐        | 离地 | 单层钢制    | 25.7 | 4 | 常温   |                |
| 18 | 精乙醇罐         | 离地 | 单层钢制    | 4.1  | 1 | 常温   | 2 号楼, 1 次/2 小时 |
| 四  | 动力环保车间冷冻盐水罐区 |    |         |      |   |      |                |
| 1  | V205 盐水罐     | 离地 | 单层钢制带保温 | 67.7 | 1 | 低温常压 | 2 小时/巡检        |



图 17 联合一车间储罐分布图

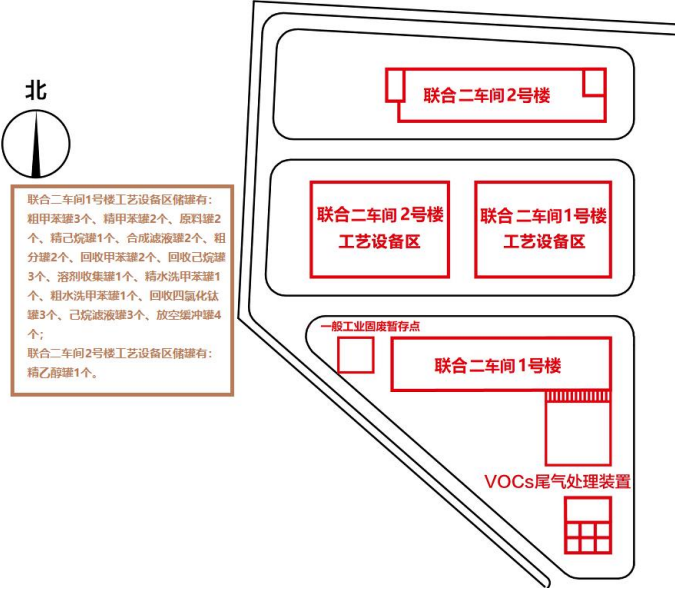


图 18 联合二车间储罐分布图

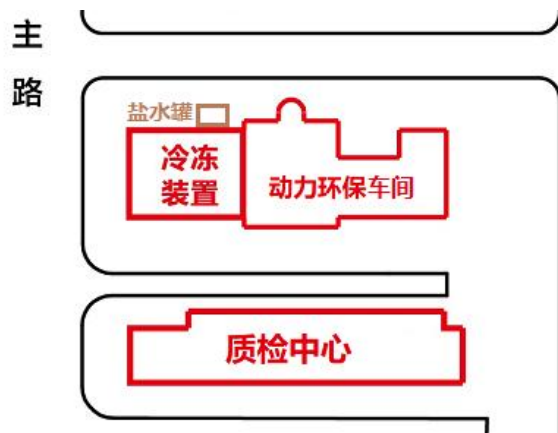


图 19 动力环保车间储罐分布图



图 20 原料罐区储罐分布图

## (2) 土壤污染防治设施和措施情况

罐区针对有毒或可燃物质设置了相应的可燃气体报警器（具体情况见表 15），设置了围堰（具体情况见表 16）、地沟及收集池，且地面及围堰采取了防腐防渗措施。

表 15 可燃气体报警器设置情况一览表

| 序号 | 名称      | 检测介质  | 数量（个） | 安装位置            |
|----|---------|-------|-------|-----------------|
| 1  | 可燃气体报警器 | 甲苯、己烷 | 73    | 联合一车间工艺设备区      |
| 2  | 可燃气体报警器 | 可燃气   | 7     | 联合二车间 1 号楼工艺设备区 |
| 3  | 可燃气体报警器 | 可燃气   | 8     | 联合二车间 2 号楼工艺设备区 |
| 4  | 可燃气体报警器 | 甲苯、己烷 | 5     | 原料罐区            |

表 16 围堰基本情况一览表

| 序号 | 罐区名称              | 围堰体积 (m³) |
|----|-------------------|-----------|
| 1  | 原料罐区              | 864.24    |
| 2  | 联合一车间室外工艺设备区      | 1443      |
| 3  | 联合二车间 1 号楼室外工艺设备区 | 1349.04   |
| 4  | 联合二车间 2 号楼室外工艺设备区 | 1309.5    |
| 5  | 动力环保车间冷冻盐水罐区      | 62        |

厂区的液体储存设施为离地储罐，各储罐土壤污染的预防设施和措施情况见下表 17、表 18 和表 19。

表 17 液体储罐调查表

| 所属装置  | 罐区/储罐名称      | 储罐形式 | 土壤污染预防设施/功能                                          | 土壤污染预防措施             | 现场排查情况                                                                 |
|-------|--------------|------|------------------------------------------------------|----------------------|------------------------------------------------------------------------|
| 联合二车间 | 原料罐区及原辅料储罐   | 离地储罐 | 有可燃气体报警器，有围堰，能够防止雨水进入，地面采用防渗混凝土，渗漏、流失的液体能得到有效收集并定期清理 | 定期开展防渗效果检查、罐体检查和日常维护 | 经排查，现场无物料泄漏痕迹，储罐无破裂，可燃气体报警器正常运转，围堰尺寸大于罐区尺寸，围堰无破损痕迹，地面硬化完好，未出现裂缝，未发现隐患点 |
| 联合一车间 | 联合一车间室外工艺设备区 | 离地储罐 | 有可燃气体报警器，有围堰，能够防止雨水进入，地面采用防渗混凝土，渗漏、流失的液体能得到有效收集并定期清理 | 定期开展防渗效果检查、罐体检查和日常维护 | 经排查，现场无物料泄漏痕迹，储罐无破裂，可燃气体报警器正常运转，围堰尺寸大于罐区尺寸，围堰无破损痕迹，地面硬化完好，未出现裂缝，未发现隐患点 |
| 联合二车间 | 联合二车间室外工艺设备区 | 离地储罐 | 有可燃气体报警器，有围堰，能够防止雨水进入，地面采用防渗混凝土，渗漏、流失的液体能得到有效收集并定期清理 | 定期开展防渗效果检查、罐体检查和日常维护 | 经排查，现场无物料泄漏痕迹，储罐无破裂，可燃气体报警器正常运转，围堰尺寸大于罐区尺寸，围堰无破损痕迹，                    |

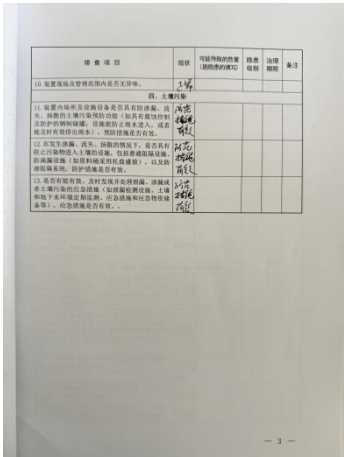
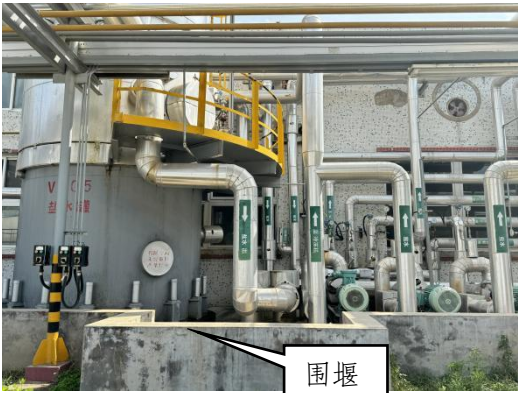
|        |        |      |                                             |                      |                                                            |
|--------|--------|------|---------------------------------------------|----------------------|------------------------------------------------------------|
|        |        |      |                                             |                      | 地面硬化完好，未出现裂缝，未发现隐患点                                        |
| 动力环保车间 | 冷冻盐水罐区 | 离地储罐 | 有围堰，能够防止雨水进入，地面采用防渗混凝土，渗漏、流失的液体能得到有效收集并定期清理 | 定期开展防渗效果检查、罐体检查和日常维护 | 经排查，现场无物料泄漏痕迹，储罐无破裂，围堰尺寸大于罐区尺寸，围堰无破损痕迹，地面硬化完好，未出现裂缝，未发现隐患点 |

表 18 液体储罐设施排查内容表

| 排查时间                            | 2025 年 7 月 15 日-2025 年 7 月 16 日 |              |              |
|---------------------------------|---------------------------------|--------------|--------------|
| 现场排查人                           | 尉迟君、况丹、于涵、李慧                    |              |              |
| 排查内容                            | 联合一车间室外工艺设备区                    | 联合二车间室外工艺设备区 | 动力环保车间冷冻盐水罐区 |
| 定期巡检，巡检记录及时准确                   | 是                               | 是            | 是            |
| 围堰完好，无开裂、渗漏，孔洞密封良好              | 是                               | 是            | 是            |
| 硬化地面完好，无开裂、渗漏                   | 是                               | 是            | 是            |
| 地沟完好，无开裂、渗漏，雨污分离                | 是                               | 是            | 是            |
| 易燃易爆、可燃气体监测仪完好投用                | 是                               | 是            | /            |
| 防渗、防滴漏（如托盘）设施完好                 | /                               | /            | /            |
| 应急处理措施和应急物资完善                   | 是                               | 是            | 是            |
| 现场标识准确无误                        | 是                               | 是            | 是            |
| 其他                              | /                               | /            | /            |
| 填表说明：符合的填“是”，不符合的详细说明，不涉及的填“/”。 |                                 |              |              |

表 19 液体储罐设施排查现场照片一览表

|   |                                                                                                   |                                                                                                            |                                                                                                  |
|---|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 一 | 原料罐区                                                                                              |                                                                                                            |                                                                                                  |
| 1 |  <p>围堰</p>       |  <p>基座</p>               |  <p>地面及地沟</p> |
| 2 | 原料罐区                                                                                              | 原料罐区                                                                                                       | 原料罐区                                                                                             |
| 二 | 联合一车间室外工艺设备区现场排查照片                                                                                |                                                                                                            |                                                                                                  |
| 1 |  <p>围堰及应急设施</p> |  <p>基座</p> <p>地面及地沟</p> |  <p>报警器</p>  |
| 2 | 室外工艺设备区                                                                                           | 室外工艺设备区                                                                                                    | 可燃气体报警器                                                                                          |

|   |                                                                                                  |                                                                                               |                                                                                                   |
|---|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 三 | 联合二车间室外工艺设备区现场排查照片                                                                               |                                                                                               |                                                                                                   |
| 1 |  <p>围堰及应急设施</p> |  <p>基座</p>  |                |
| 2 | 室外工艺设备区                                                                                          | 室外工艺设备区                                                                                       | 专项排查记录                                                                                            |
| 三 | 动力环保车间冷冻盐水罐区现场排查照片                                                                               |                                                                                               |                                                                                                   |
| 1 |  <p>围堰</p>     |  <p>标识</p> |  <p>地面及地沟</p> |
| 2 | 冷冻盐水罐区                                                                                           | 盐水罐现场标识                                                                                       | 冷冻盐水罐区                                                                                            |

## 2.1.2 池体类储存设施

### (1) 池体类储存设施基本情况

厂区的池体类储存设施为联合一车间沉降池、联合二车间沉降池、动力环保车间雨水收集池、动力环保车间集水井、锅炉排水中和池、污水处理站均质池、污水处理站 MBBR 池、污水处理站二沉池等池体，具体情况见下表 20，池体分布见图 21。

表 20 池体基本情况一览表

| 序号 | 名称           | 池体类型 | 深度 (m) | 数量 (个) | 所在位置           |
|----|--------------|------|--------|--------|----------------|
| 1  | 联合一车间沉降池     | 地下   | 4      | 1      | N 装置室外工艺设备区东南侧 |
| 2  | 联合二车间沉降池     | 地下   | 4      | 1      | 联合二车间 1 号楼西侧   |
| 3  | 动力环保车间雨水收集池  | 地下   | 3      | 1      | 动力环保车间办公楼东侧    |
| 4  | 动力环保车间集水井    | 地下   | 3.5    | 1      | 动力环保车间办公楼东南侧   |
| 5  | 锅炉排水中和池      | 地下   | 1.3    | 1      | 锅炉北侧           |
| 6  | 污水处理站均质池     | 半地下  | 5.5    | 1      | 污水处理站          |
| 7  | 污水处理站 MBBR 池 | 半地下  | 6.7    | 1      | 污水处理站          |
| 8  | 污水处理站二沉池     | 半地下  | 8.7    | 1      | 污水处理站          |

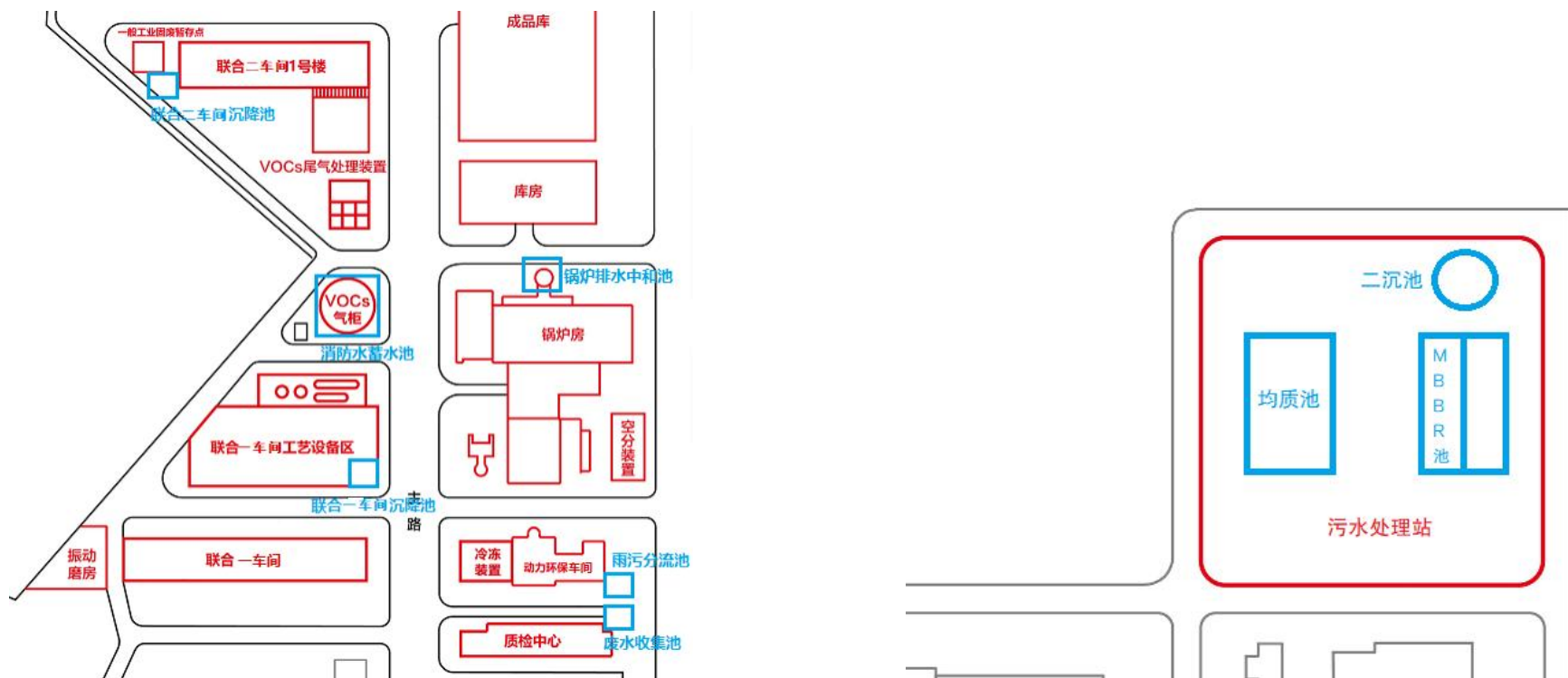


图 21 池体分布图

## (2) 土壤污染防治设施和措施情况

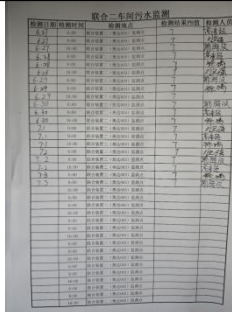
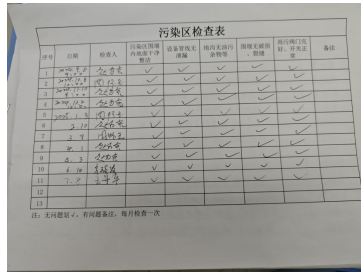
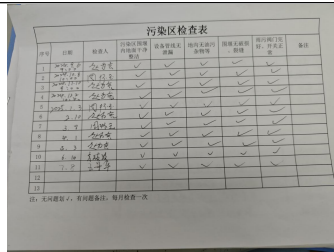
各池体均使用防渗混凝土建造，实施雨污分流，定期开展日常巡查工作。各池体土壤污染的预防设施和措施情况见下表 21，液体储罐设施排查现场照片见表 22。

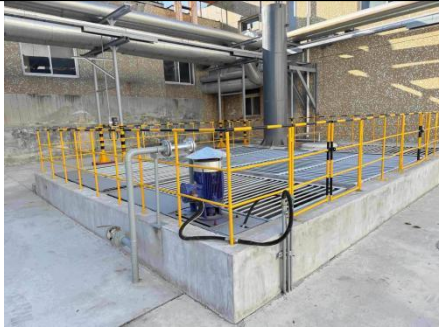
表 21 池体储存设施调查表

| 所属装置   | 罐区/储罐名称  | 土壤污染预防设施/功能 | 土壤污染预防措施                              | 现场排查情况                                         |
|--------|----------|-------------|---------------------------------------|------------------------------------------------|
| 联合一车间  | 联合一车间沉降池 | 防渗池体        | 池体密闭，定期检查防渗、密封效果，确保正常运行，开展日常目视检查和日常维护 | 经排查，池体无破损，未出现裂缝；防渗效果好，未发生渗漏情况，未发现隐患点，定期开展检测并记录 |
| 联合二车间  | 联合二车间沉降池 | 防渗池体        | 池体密闭，定期检查防渗、密封效果，确保正常运行，开展日常目视检查和日常维护 | 经排查，池体封闭，防渗效果好，未发生渗漏情况，未发现隐患点，定期开展检测并记录        |
| 动力环保车间 | 雨水收集池    | 防渗池体        | 池体密闭，定期检查防渗、密封效果，确保正常运行，开展日常目视检查和日常维护 | 经排查，现场设施正常运行，池体无破损，未出现裂缝；防渗效果好，未发生渗漏情况，未发现隐患点  |
| 动力环保车间 | 集水井      | 防渗池体        | 有围堰，定期检查防渗、密封效果，确保正常运行，开展日常目视检查和日常维护  | 经排查，现场设施正常运行，池体无破损，未出现裂缝；防渗效果好，未发生渗漏情况，未发现隐患点  |
| 动力环保车间 | 锅炉排水中和池  | 防渗池体        | 有围堰，定期检查防渗、密封效果，确保正常运行，开展日常目视检查和日常维护  | 经排查，池体无破损，未出现裂缝；防渗效果好，未发生渗漏情况，未发现隐患点           |
| 动力环保车间 | 均质池      | 防渗池体        | 每天进行现场巡检，开展日常目视检查                     | 经排查，池体无破损，未出现裂缝；防渗效果好，未发生渗漏情况，未发现隐患点           |
| 动力环保车间 | MBBR 池   | 防渗池体        | 每天进行现场巡检，开展日常目视检查                     | 经排查，池体无破损，未出现裂缝；防渗效果好，未发生渗漏情况，未发现隐患点           |
| 动力环保车间 | 二沉池      | 防渗池体        | 每天进行现场巡检，开展日常目视检查                     | 经排查，池体无破损，未出现裂缝；防渗效果好，未发生渗漏情况，未发现隐患点           |

表 22 液体储罐设施排查现场照片一览表

| 一          | 联合一车间沉降池现场排查照片                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 1          | <div></div> | <div>四联检测记录</div> <table><tr><th>日期</th><th>时间</th><th>检测人</th><th>检测结果</th><th>备注</th></tr><tr><td>2023.01.10</td><td>10:00</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>10:05</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>10:10</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>10:15</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>10:20</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>10:25</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>10:30</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>10:35</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>10:40</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>10:45</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>10:50</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>10:55</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>11:00</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>11:05</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>11:10</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>11:15</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>11:20</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>11:25</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>11:30</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>11:35</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>11:40</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>11:45</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>11:50</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>11:55</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>12:00</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>12:05</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>12:10</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>12:15</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>12:20</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>12:25</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>12:30</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>12:35</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>12:40</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>12:45</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>12:50</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>12:55</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>13:00</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>13:05</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>13:10</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>13:15</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>13:20</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>13:25</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>13:30</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>13:35</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>13:40</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>13:45</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>13:50</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>13:55</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>14:00</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>14:05</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>14:10</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>14:15</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>14:20</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>14:25</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>14:30</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>14:35</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>14:40</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>14:45</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>14:50</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>14:55</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>15:00</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>15:05</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>15:10</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>15:15</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>15:20</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>15:25</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>15:30</td><td>张三</td><td>合格</td><td></td></tr><tr><td>2023.01.10</td><td>15:35</t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| 2023.01.10 | 10:40                                                                                          | 张三                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2023.01.10 | 10:45                                                                                          | 张三                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2023.01.10 | 12:45                                                                                          | 张三                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2023.01.10 | 13:10                                                                                          | 张三                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2023.01.10 | 13:35                                                                                          | 张三                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2023.01.10 | 14:45                                                                                          | 张三                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2023.01.10 | 15:35                                                                                          | 张三                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2023.01.10 | 16:00                                                                                          | 张三                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2023.01.10 | 16:25                                                                                          | 张三                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2023.01.10 | 17:55                                                                                          | 张三                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2023.01.10 | 18:00                                                                                          | 张三                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2023.01.10 | 18:25                                                                                          | 张三                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2023.01.10 | 18:50                                                                                          | 张三                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2023.01.10 | 19:15                                                                                          | 张三                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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|  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |           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|    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |            |       |    |    |  |

|   |                                                                                     |                                                                                       |
|---|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 2 | 沉降池                                                                                 | 检测记录                                                                                  |
| 二 | 联合二车间沉降池现场排查照片                                                                      |                                                                                       |
| 1 |    |    |
| 2 | 沉降池                                                                                 | 检测记录                                                                                  |
| 三 | 动力环保车间雨水收集池现场排查照片                                                                   |                                                                                       |
| 1 |    |    |
| 2 | 雨污收集池                                                                               | 日常操作及检查记录                                                                             |
| 四 | 动力环保车间集水井现场排查照片                                                                     |                                                                                       |
| 1 |  |  |

|   |                                                                                     |                                                                                      |
|---|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 2 | 废水收集池                                                                               | 检查记录                                                                                 |
| 五 | 动力环保车间锅炉排水中和池现场排查照片                                                                 |                                                                                      |
| 1 |    |   |
| 2 | 锅炉排水中和池                                                                             | 检查记录                                                                                 |
| 六 | 动力环保车间均质池现场排查照片                                                                     |                                                                                      |
| 1 |  |  |
| 2 | 均质池                                                                                 |                                                                                      |
| 七 | 动力环保车间 MBBR 池现场排查照片                                                                 |                                                                                      |

|   |                                                                                    |                                                                                     |
|---|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1 |  |  |
| 2 | MBBR 池                                                                             |                                                                                     |
| 八 | 动力环保车间二沉池现场排查照片                                                                    |                                                                                     |
| 1 |  |  |
| 2 | 二沉池                                                                                |                                                                                     |

## 2.2 散装液体转运与厂区运输

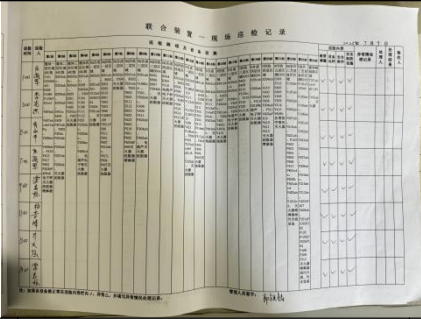
### 2.2.1 管道运输

厂区的管道运输为合成、冷冻、抽干和掺合等生产过程的管路，均为地上管道，属于架空管道。各管道的土壤污染防治设施和措施情况见表 23，管道运输排查表见表 24。

表 23 管道运输调查表

| 管道名称                | 管道类型 | 土壤污染防治设施/功能     | 土壤污染防治措施                  | 现场排查情况                                  |
|---------------------|------|-----------------|---------------------------|-----------------------------------------|
| 合成、冷冻、抽干和掺合等生产过程的管路 | 地上   | 管道附件处无泄漏、渗漏情况发生 | 定期检查管路渗漏情况，开展日常目视检查，有应急预案 | 经排查，装置现场内管路完好，无破损，正常输送物料，未发生渗漏情况，未发现隐患点 |

表 24 管道运输排查表

|                |                               |                                                                                     |  |
|----------------|-------------------------------|-------------------------------------------------------------------------------------|--|
| 排查时间           | 2025 年 7 月 7 日-2025 年 7 月 8 日 |                                                                                     |  |
| 现场排查人          | 包满、冯超、杜传彬、尉迟君                 |                                                                                     |  |
| 排查内容           | 合成、冷冻、抽干和掺合等生产过程的管路           | 现场照片                                                                                |  |
| 定期巡检，巡检记录及时准确  | 是                             |  |  |
| 管道附件无泄漏、渗漏情况发生 | 是                             |  |  |

|                                 |   |                                                                                     |                                                                                     |
|---------------------------------|---|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 应急处理措施、应急物资和应急预案完善              | 是 |   |  |
| 现场标识准确无误                        | 是 |  |  |
| 其他                              | / | /                                                                                   | /                                                                                   |
| 填表说明：符合的填“是”，不符合的详细说明，不涉及的填“/”。 |   |                                                                                     |                                                                                     |

## 2.2.2 传输泵

### (1) 传输泵基本信息

厂区的传输泵为原料罐区、联合一车间室外工艺设备区、联合二车间室外工艺设备区、动力环保车间冷冻盐水罐区等室外罐组传输泵。

具体情况见下表 25。

表 25 传输泵基本情况一览表

| 序号 | 名称                  | 泵的类型    | 位置           | 数量（个） | 输送介质       | 密封性能      |
|----|---------------------|---------|--------------|-------|------------|-----------|
| 1  | 原料罐区室外罐组传输泵         |         |              |       |            |           |
|    | 原料罐区卸车泵             | 磁力泵     | 原料罐区卸车区      | 1     | 乙醇         | 静密封       |
|    |                     | 磁力泵     |              | 1     | 己烷         | 静密封       |
|    |                     | 磁力泵     |              | 1     | 甲苯         | 静密封       |
|    |                     | 磁力泵     |              | 1     | 四氯化钛       | 静密封       |
|    | 原料罐区输送泵             | 磁力泵     | 原料罐区打料区      | 1     | 乙醇         | 静密封       |
|    |                     | 磁力泵     |              | 1     | 己烷         | 静密封       |
|    |                     | 磁力泵     |              | 1     | 甲苯         | 静密封       |
|    |                     | 磁力泵     |              | 1     | 四氯化钛       | 静密封       |
| 2  | 联合一车间室外工艺设备区室外罐组传输泵 | 屏蔽泵     | DQ 室外工艺设备区   | 7     | 己烷、四氯化钛    | 静密封       |
|    |                     | 磁力泵     | DQ 室外工艺设备区   | 3     | 四氯化钛       | 静密封       |
|    |                     | 自吸泵     | DQ 室外工艺设备区   | 1     | 乙醇         | 动密封       |
|    |                     | 屏蔽泵     | N 室外工艺设备区    | 6     | 甲苯、己烷、四氯化钛 | 静密封       |
|    |                     | 磁力泵     | N 室外工艺设备区    | 3     | 甲苯、己烷、四氯化钛 | 静密封       |
| 3  | 联合二车间室外工艺设备区室外罐组传输泵 | 磁力驱动离心泵 | 联合二车间室外工艺设备区 | 13    | 甲苯、己烷、四氯化钛 | 全密闭无动密封设备 |
| 4  | 动力环保车间冷冻盐水罐区室外罐组传输泵 | 离心泵     | 冷冻盐水池围堰内     | 5     | 盐水         | 动密封       |

(2) 土壤污染防治设施和措施情况

各传输泵的土壤污染防治设施和措施见下表 26。

表 26 传输泵调查表

| 所属装置  | 传输泵名称               | 传输泵类型    | 土壤污染防治设施/功能                                                  | 土壤污染防治措施                      | 现场排查情况                                         | 现场照片                                                                                 |
|-------|---------------------|----------|--------------------------------------------------------------|-------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------|
| 联合二车间 | 原料罐区室外罐组传输泵         | 密封效果较好的泵 | 有围堰等普通阻隔设施，渗漏、流失的液体能得到有效收集并及时处理，泵体或关键部位有防滴漏设施                | 定期开展防渗效果检查及泄漏检测，开展日常目视检查及日常维护 | 经排查，传输泵正常运行，无物料泄漏痕迹；硬化地面和围堰完好，无破损、裂缝等情况；未发现隐患点 |   |
| 联合一车间 | 联合一车间室外工艺设备区室外罐组传输泵 | 密封效果较好的泵 | 有安装关闭控制阀门，手动关阀，有围堰等普通阻隔设施，渗漏、流失的液体能得到有效收集并及时处理，泵体或关键部位有防滴漏设施 | 定期开展防渗效果检查及泄漏检测，开展日常目视检查及日常维护 | 经排查，传输泵正常运行，无物料泄漏痕迹；硬化地面和围堰完好，无破损、裂缝等情况；未发现隐患点 |   |
| 联合二车间 | 联合二车间室外工艺设备区室外罐组传输泵 | 密封效果较好的泵 | 有安装关闭控制阀门，手动关阀，有围堰等普通阻隔设施，渗漏、流失的液体能得到有效收集并及时处理，泵体或关键部位有防滴漏设施 | 定期开展防渗效果检查及泄漏检测，开展日常目视检查及日常维护 | 经排查，传输泵正常运行，无物料泄漏痕迹；硬化地面和围堰完好，无破损、裂缝等情况；未发现隐患点 |  |

|        |                                 |              |                                                                              |                                           |                                                                |                                                                                     |
|--------|---------------------------------|--------------|------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 动力环保车间 | 动力环保车间<br>冷冻盐水罐区<br>室外罐组传输<br>泵 | 密封效果较<br>好的泵 | 有安装关闭控制阀门，手动<br>关闭，有围堰等普通阻隔设<br>施，渗漏、流失的液体能得<br>到有效收集并及时处理，泵<br>体或关键部位有防滴漏设施 | 定期开展防渗效果检<br>查及泄漏检测，开展<br>日常目视检查及日常<br>维护 | 经排查，传输泵正常运<br>行，无物料泄漏痕迹；<br>硬化地面和围堰完好，<br>无破损、裂缝等情况；<br>未发现隐患点 |  |
|--------|---------------------------------|--------------|------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|

### 2.3 货物的储存和传输

#### 2.3.1 包装货物的储存和暂存

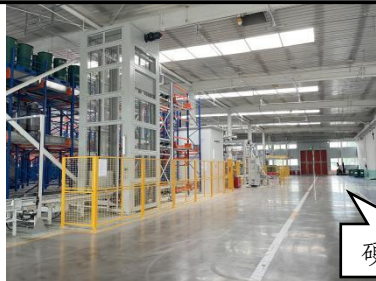
包装货物主要为固态物质等，暂存点为库房、成品库，包装货物的储存和暂存采取的土壤污染防治设施和措施见表 27，排查表见表 28。

表 27 包装货物的储存和暂存调查表

| 暂存点 | 包装类型 | 储存形式 | 土壤污染防治设施/功能                                                    | 土壤污染防治措施                                   | 现场排查情况                        |
|-----|------|------|----------------------------------------------------------------|--------------------------------------------|-------------------------------|
| 库房  | 固体物质 | 隔开储存 | 货物储存于仓库内，有顶棚，能防止雨水进入，有合适的包装，地面设有防渗混凝土，渗漏、流失的液体得有有效收集并定期处理      | 有应对泄漏事件的人员培训及应急预案，定期开展防渗效果检查，开展日常目视检查及日常维护 | 经排查，库房顶棚完好，地面硬化完好，无裂缝，未发现隐患点  |
| 成品库 | 固体物质 | 隔开储存 | 货物储存于仓库内，有顶棚，能防止雨水进入，有合适的包装，有防滴漏设施，有防渗阻隔系统，渗漏、流失的液体得有有效收集并定期处理 | 有应对泄漏事件的人员培训及应急预案，定期开展防渗效果检查，开展日常目视检查及日常维护 | 经排查，成品房顶棚完好，地面硬化完好，无裂缝，未发现隐患点 |

表 28 货物的储存和暂存排查表

|       |                                 |
|-------|---------------------------------|
| 排查时间  | 2025 年 7 月 23 日-2025 年 7 月 24 日 |
| 现场排查人 | 钱海、罗静怡、刘昊、李慧                    |

| 排查内容                            | 库房 | 成品库 | 现场照片                                                                                                                              |
|---------------------------------|----|-----|-----------------------------------------------------------------------------------------------------------------------------------|
| 硬化地面完好，无开裂、渗漏                   | 是  | 是   |  <div data-bbox="1832 459 1989 507">硬化地面</div> |
| 有合适的包装、防滴漏（如托盘）设施完好             | 是  | 是   |  <div data-bbox="1720 699 1809 746">托盘</div>   |
| 应急处理措施、应急物资和应急预案完善              | 是  | 是   |                                               |
| 现场标识准确无误                        | 是  | 是   | /                                                                                                                                 |
| 其他                              | /  | /   | /                                                                                                                                 |
| 填表说明：符合的填“是”，不符合的详细说明，不涉及的填“/”。 |    |     |                                                                                                                                   |

## 2.4 生产区

厂内生产区为联合一车间、联合二车间，生产设备均为密闭类型，根据《重点监管单位土壤污染

隐患排查指南(试行)》确定密闭设备（如反应釜、反应塔等），结合设备情况，各装置采取的土壤污染防治设施和措施情况见表 29，排查表见表 30。

表 29 生产区调查表

| 装置名称        | 重点设施名称 | 设备类型 | 土壤污染防治设施/功能                                                                                | 土壤污染防治措施                 | 现场排查情况                                                                |
|-------------|--------|------|--------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------|
| 联合一车间载体装置   | 粉碎机    | 密闭   | 有可燃气体报警器，有围堰等普通阻隔设施，传输泵、易发生故障的零部件、检测样品采样点等位置无泄漏迹象，地面采用防渗混凝土，能及时有效排出雨水，渗漏、流失的液体能得到有效收集并定期清理 | 制定检修计划，开展日常维护，定期开展防渗效果检查 | 经排查，车间内各设备正常运行，无物料泄漏痕迹；可燃气体报警器正常运行；有完善的阻隔保护设施，地面硬化完好，无破损、裂缝等情况，未发现隐患点 |
|             | 振动磨    |      |                                                                                            |                          |                                                                       |
|             | 超重力机   |      |                                                                                            |                          |                                                                       |
|             | 醇合釜    |      |                                                                                            |                          |                                                                       |
|             | 高搅釜    |      |                                                                                            |                          |                                                                       |
|             | 混油釜    |      |                                                                                            |                          |                                                                       |
|             | 冷却釜    |      |                                                                                            |                          |                                                                       |
|             | 洗涤釜    |      |                                                                                            |                          |                                                                       |
|             | 悬液釜    |      |                                                                                            |                          |                                                                       |
|             | 乙醇吸附塔  |      |                                                                                            |                          |                                                                       |
| 联合一车间 DQ 装置 | 掺合釜    | 密闭   | 有可燃气体报警器，有围堰等普通阻隔设施，传输泵、易发生故障的零部件、检测样品采样点等位置无泄漏迹象，地面采用防渗混凝土，能及时有效排出雨水，渗漏、流失的液体能得到有效收集并定期清理 | 制定检修计划，开展日常维护，定期开展防渗效果检查 | 经排查，车间内各设备正常运行，无物料泄漏痕迹；可燃气体报警器正常运行；有完善的阻隔保护设施，地面硬化完好，无破损、裂缝等情况，未发现隐患点 |
|             | 超重力机   |      |                                                                                            |                          |                                                                       |
|             | 醇合釜    |      |                                                                                            |                          |                                                                       |
|             | 合成釜    |      |                                                                                            |                          |                                                                       |
|             | 旋转抽干釜  |      |                                                                                            |                          |                                                                       |
|             | 振动抽干釜  |      |                                                                                            |                          |                                                                       |
|             | 闪蒸釜    |      |                                                                                            |                          |                                                                       |

|            |            |    |                                                                                            |                          |                                                                       |
|------------|------------|----|--------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------|
|            | 闪蒸塔        |    |                                                                                            |                          |                                                                       |
|            | 四氯化钛精馏塔    |    |                                                                                            |                          |                                                                       |
|            | 水解釜        |    |                                                                                            |                          |                                                                       |
|            | 水吸收塔       |    |                                                                                            |                          |                                                                       |
|            | 中和釜        |    |                                                                                            |                          |                                                                       |
|            | 己烷脱水塔      |    |                                                                                            |                          |                                                                       |
| 联合一车间 N 装置 | 掺和釜        | 密闭 | 有可燃气体报警器，有围堰等普通阻隔设施，传输泵、易发生故障的零部件、检测样品采样点等位置无泄漏迹象，地面采用防渗混凝土，能及时有效排出雨水，渗漏、流失的液体能得到有效收集并定期清理 | 制定检修计划，开展日常维护，定期开展防渗效果检查 | 经排查，车间内各设备正常运行，无物料泄漏痕迹；可燃气体报警器正常运行；有完善的阻隔保护设施，地面硬化完好，无破损、裂缝等情况，未发现隐患点 |
|            | 抽干釜        |    |                                                                                            |                          |                                                                       |
|            | 合成釜        |    |                                                                                            |                          |                                                                       |
|            | 溶解釜        |    |                                                                                            |                          |                                                                       |
|            | 洗涤釜        |    |                                                                                            |                          |                                                                       |
|            | 闪蒸釜        |    |                                                                                            |                          |                                                                       |
|            | 闪蒸塔        |    |                                                                                            |                          |                                                                       |
|            | 搪瓷反应釜      |    |                                                                                            |                          |                                                                       |
|            | 己烷脱水塔      |    |                                                                                            |                          |                                                                       |
|            | 甲苯脱水塔      |    |                                                                                            |                          |                                                                       |
| 联合二车间 1 号楼 | 己烷脱水塔      | 密闭 | 有可燃气体报警器，有围堰等普通阻隔设施，传输泵、易发生故障的零部件、检测样品采样点等位置无泄漏迹象，地面采用防渗混凝土，能及时有效排出雨水，渗漏、流失的液体能得到有效收集并定期清理 | 制定检修计划，开展日常维护，定期开展防渗效果检查 | 经排查，车间内各设备正常运行，无物料泄漏痕迹；可燃气体报警器正常运行；有完善的阻隔保护设施，地面硬化完好，无破损、裂缝等情况，未发现隐患点 |
|            | 甲苯脱水塔      |    |                                                                                            |                          |                                                                       |
|            | BCE 催化剂合成釜 |    |                                                                                            |                          |                                                                       |
|            | BCE 催化剂溶解釜 |    |                                                                                            |                          |                                                                       |
|            | BCE 催化剂洗涤釜 |    |                                                                                            |                          |                                                                       |
|            | NG 催化剂抽干釜  |    |                                                                                            |                          |                                                                       |
|            | N 催化剂合成釜   |    |                                                                                            |                          |                                                                       |

|            |          |    |                                                                                            |                          |                                                                       |
|------------|----------|----|--------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------|
|            | N 催化剂洗涤釜 |    |                                                                                            |                          |                                                                       |
|            | 催化剂掺合釜   |    |                                                                                            |                          |                                                                       |
|            | 催化剂抽干釜   |    |                                                                                            |                          |                                                                       |
|            | 振动筛      |    |                                                                                            |                          |                                                                       |
|            | 四氯化钛精馏塔  |    |                                                                                            |                          |                                                                       |
|            | 四氯化钛精馏塔  |    |                                                                                            |                          |                                                                       |
| 联合二车间 2 号楼 | 分子筛脱水塔   | 密闭 | 有可燃气体报警器，有围堰等普通阻隔设施，传输泵、易发生故障的零部件、检测样品采样点等位置无泄漏迹象，地面采用防渗混凝土，能及时有效排出雨水，渗漏、流失的液体能得到有效收集并定期清理 | 制定检修计划，开展日常维护，定期开展防渗效果检查 | 经排查，车间内各设备正常运行，无物料泄漏痕迹；可燃气体报警器正常运行；有完善的阻隔保护设施，地面硬化完好，无破损、裂缝等情况，未发现隐患点 |
|            | 合成釜      |    |                                                                                            |                          |                                                                       |
|            | 浆液掺合釜    |    |                                                                                            |                          |                                                                       |

表 30 生产区重点设施排查现场照片一览表

| 一 | 联合一车间                                                                               |  |  |  |  |
|---|-------------------------------------------------------------------------------------|--|--|--|--|
| 1 |  |  |  |  |  |
| 2 | <p>联合一车间载体装置内地面</p> <p>联合一车间 DQ 装置内地面</p> <p>联合一车间 N 装置内地面</p>                      |  |  |  |  |

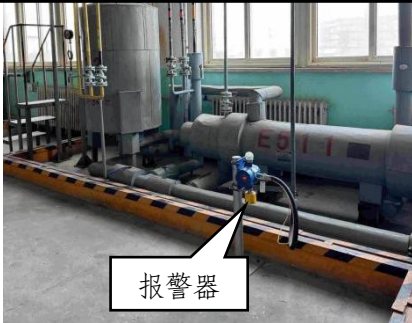
|   |                                                                                   |                                                                                    |                                                                                     |
|---|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 3 |  |  |  |
| 4 | 装置内现场                                                                             | 防渗设施                                                                               | 可燃气体报警器                                                                             |
| 二 | 联合二车间                                                                             |                                                                                    |                                                                                     |
| 1 |  |  |  |
| 2 | 巡检记录                                                                              | 可燃气体报警器                                                                            | 密封设备                                                                                |

表 31 生产区排查表

|                    |                                 |       |
|--------------------|---------------------------------|-------|
| 排查时间               | 2025 年 7 月 24 日-2025 年 7 月 25 日 |       |
| 现场排查人              | 许浩洋、冯超、杜传彬、何泽源                  |       |
| 排查内容               | 联合一车间                           | 联合二车间 |
| 定期巡检，巡检记录及时准确      | 是                               | 是     |
| 围堰完好，无开裂、渗漏，孔洞密封良好 | 是                               | 是     |

|                                 |   |   |
|---------------------------------|---|---|
| 硬化地面完好，无开裂、渗漏                   | 是 | 是 |
| 地沟完好，无开裂、渗漏，雨污分离                | 是 | 是 |
| 易燃易爆、可燃气体监测仪完好投用                | 是 | 是 |
| 防渗、防滴漏（如托盘）设施及效果完好，无泄漏痕迹        | 是 | 是 |
| 应急处理措施、应急物资和检修计划完善              | 是 | 是 |
| 现场标识准确无误                        | 是 | 是 |
| 填表说明：符合的填“是”，不符合的详细说明，不涉及的填“/”。 |   |   |

## 2.5 其他活动区

奥达的其他活动区主要为废水排水系统、应急收集设施、分析化验室和一般工业固体废物暂存点、危险废物贮存库。

### 2.5.1 废水排水系统

涉及该项活动的主要有废水排放管路，土壤污染防治设施和措施见下表 32。

表 32 废水排水系统调查表

| 所属装置 | 废水排水系统名称 | 材质 | 装置类型排水系统类型 | 土壤污染防治设施/功能                            | 土壤污染防治措施    | 现场排查情况                         | 现场照片                                                                                  |
|------|----------|----|------------|----------------------------------------|-------------|--------------------------------|---------------------------------------------------------------------------------------|
| 各车间  | 废水排放管路   | 碳钢 | 地上废水排水系统   | 有围堰等阻隔设施，地面采用防渗漏混凝土，排水沟、设施连接处、排水口等防止渗漏 | 开展目视检查及日常维护 | 经排查，车间内无废水泄漏迹象；地面完好，无破损，未发现隐患点 |  |

2.5.2 应急收集设施

企业的应急收集设施为污水处理站事故池，采取的土壤污染防治设施和措施见表 33。

表 33 应急收集设施调查表

| 应急收集设施名称 | 池体类型 | 材质    | 深度（m） | 土壤污染防治设施/功能 | 土壤污染防治措施        | 现场排查情况                        | 现场照片                                                                                |
|----------|------|-------|-------|-------------|-----------------|-------------------------------|-------------------------------------------------------------------------------------|
| 污水处理站事故池 | 地上   | 钢筋混凝土 | 5.5   | 采取防渗措施      | 定期开展防渗效果检查及日常维护 | 经排查，现场无废水泄漏迹象；池体完好，无破损，未发现隐患点 |  |

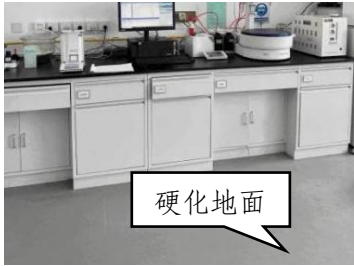
表 34 应急收集设施排查表

|                                 |                                 |
|---------------------------------|---------------------------------|
| 排查时间                            | 2025 年 7 月 10 日-2025 年 7 月 11 日 |
| 现场排查人                           | 刘显杰、刘艳艳、张永生、于涵                  |
| 排查内容                            | 污水处理站事故池                        |
| 定期巡检，巡检记录及时准确                   | 是                               |
| 防渗效果完好                          | 是                               |
| 池体结构完好，无开裂、渗漏                   | 是                               |
| 其他                              | /                               |
| 填表说明：符合的填“是”，不符合的详细说明，不涉及的填“/”。 |                                 |

### 2.5.3 分析化验室

分析化验室设置在质检中心，采取的土壤污染防治设施和措施见下表 35。

表 35 分析化验室调查表

| 所属装置 | 土壤污染防治设施/功能                                  | 土壤污染防治措施              | 现场排查情况                                 | 现场照片                                                                                |                                                                                     |
|------|----------------------------------------------|-----------------------|----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 质检中心 | 分析化验室的渗漏、流失的液体能够得到有效收集并定期处理，地面采用防渗混凝土，有防滴漏设施 | 定期清空防滴漏设施，开展日常维护和目视检查 | 经排查，防滴漏设施完好，定期清空，无残留液体；地面完好，无破损，未发现隐患点 |  |  |

### 2.5.4 一般工业固体废物贮存场和危险废物贮存库

企业拥有一个一般工业固体废物暂存点和一个危险废物贮存库，符合相关技术规范要求，采取的土壤污染防治设施和措施见下表 36。

表 36 一般工业固体废物暂存点和危险废物贮存库调查表

| 贮存库名称 | 土壤污染防治设施/功能 | 土壤污染防治措施 | 现场排查情况 | 现场照片 |
|-------|-------------|----------|--------|------|
|-------|-------------|----------|--------|------|

|             |                                    |                         |                                             |                                                                                    |                                                                                     |                                                                                     |
|-------------|------------------------------------|-------------------------|---------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 一般工业固体废物暂存点 | 地面采用防腐防渗漏混凝土，有防雨淋的顶棚，有导流渠，有符合要求的标识 | 有突发环境事件应急预案，定期检查贮存库现场情况 | 经排查，地面完好，无破损；防雨淋的顶棚无破损，导流渠无堵塞，现场标识健全，未发现隐患点 |  |  |  |
| 危险废物贮存库     | 地面采用防腐防渗漏混凝土，有导流渠，有符合要求的标识         | 有突发环境事件应急预案，定期检查贮存库现场情况 | 经排查，地面完好，无破损；防雨淋的顶棚无破损，导流渠无堵塞，现场标识健全，未发现隐患点 |  |  |  |

表 37 一般工业固体废物贮存场和危险废物贮存库排查表

|                    |                                 |         |
|--------------------|---------------------------------|---------|
| 排查时间               | 2025 年 7 月 28 日-2025 年 7 月 29 日 |         |
| 现场排查人              | 尉迟君、刘艳艳、刘昊、罗静怡                  |         |
| 排查内容               | 一般工业固体废物暂存点                     | 危险废物贮存库 |
| 定期巡检，巡检记录及时准确      | 是                               | 是       |
| 硬化地面完好，无开裂、渗漏      | 是                               | 是       |
| 地沟完好，无开裂、渗漏        | 是                               | 是       |
| 应急处理措施、应急物资和应急预案完善 | 是                               | 是       |
| 现场标识准确无误           | 是                               | 是       |
| 有导流渠，无开裂、渗漏        | 是                               | 是       |

|                                 |   |   |
|---------------------------------|---|---|
| 其他                              | / | / |
| 填表说明：符合的填“是”，不符合的详细说明，不涉及的填“/”。 |   |   |

3. 隐患排查台账

表 38 隐患排查台账

|         |        |              |                    |                                                                                    |                                           |                              |    |
|---------|--------|--------------|--------------------|------------------------------------------------------------------------------------|-------------------------------------------|------------------------------|----|
| 企业名称    |        |              | 中国石化催化剂有限公司北京奥达分公司 |                                                                                    | 所属行业                                      | 2661 化学试剂和助剂制造               |    |
| 现场排查负责人 |        |              | 尉迟君                |                                                                                    | 排查时间                                      | 2025 年 7 月                   |    |
| 序号      | 涉及工业活动 | 重点场所或者重点设施设备 | 位置信息               | 现场图片                                                                               | 隐患点                                       | 整改建议                         | 备注 |
| 1       | 生产区    | 否            | 厂区内地下水监测井          |  | 厂区内地下水监测井不符合 HJ164-2020 中 5.1.3 环境监测井标识要求 | 按照 HJ164-2020 中相关要求完善环境监测井标识 | /  |

4. 隐患整改台账

表 39 隐患整改台账

|         |                    |      |                |
|---------|--------------------|------|----------------|
| 企业名称    | 中国石化催化剂有限公司北京奥达分公司 | 所属行业 | 2661 化学试剂和助剂制造 |
| 现场排查负责人 | 尉迟君                | 排查时间 | 2025 年 7 月     |

| 序号 | 涉及工业活动 | 重点场所或者重点设施设备 | 位置信息      | 隐患点                                       | 实际整改情况                                  | 整改后现场图片                                                                             | 隐患整改完成日期        | 备注 |
|----|--------|--------------|-----------|-------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------|-----------------|----|
| 1  | 生产区    | 否            | 厂区内地下水监测井 | 厂区内地下水监测井不符合 HJ164-2020 中 5.1.3 环境监测井标识要求 | 按照 HJ164-2020 中相关要求已完善环境监测井标识，并张贴在监测井表面 |  | 2025 年 7 月 25 日 | /  |

## 五、结论和建议

### 1. 隐患排查结论

按照《重点监管单位土壤污染隐患排查指南（试行）》相关要求，通过资料收集、人员访谈、现场调查等方式，确定了重点场所和重点设施设备，开展了有潜在土壤污染隐患的区域的排查，结合土壤和地下水自行监测数据，编制形成土壤污染隐患排查报告。

通过此轮排查，确认奥达土壤隐患管控有效，措施基本落实到位，主要情况如下：

（1）重点场所和重点设施设备具有基本的防渗漏、流失、扬散的土壤污染预防功能，普通阻隔设施和防渗阻隔系统可以有效阻隔污染物进入土壤，未发现土壤污染预防设施设备破损及污染地面痕迹。

（2）为能有效、及时发现并处理泄漏、渗漏或者土壤污染的设施，定期开展土壤和地下水监测和日常及专项环境排查，应急物资储备完善、到位。

（3）土壤污染预防措施的制定有针对性、准确性和可操作性，有关预防土壤污染管理制度建立完善，执行情况较好，能够做到及时发现隐患并采取措施整改；如在隐患排查过程中发现地下水监测井标识未按要求设置后立即完善标识并张贴在监测井表面。

### 2. 隐患整改方案或建议

为加强土壤和地下水管理，进一步污染防治，应每年不定期开展土壤污染隐患排查，建立隐患排查台账，制定整改方案，针对每个隐患提出具体整改措施及计划完成时间，整

改完成后形成隐患整改台账，建立土壤隐患排查档案，档案备查。

持续排查污染隐患，梳理过程产物污染物清单，完善关注污染物，并加强对其的管理，在厂区内的入库、储存、运输等各环节全过程监管，避免泄漏后污染土壤。

### **3. 对土壤和地下水自行监测工作建议**

（1）细化土壤和地下水自行监测方案内容，完善重点场所或设施清单，加强周边设备设施隐患排查。

（2）梳理生产过程原辅料情况，细化重点单元，持续监测地下水和地下池体水质监测，掌握浓度变化趋势。

（3）加强地下水监测井的保护，持续开展土壤和地下水监测工作，启动专项调查。

六、附件

1. 平面布置图

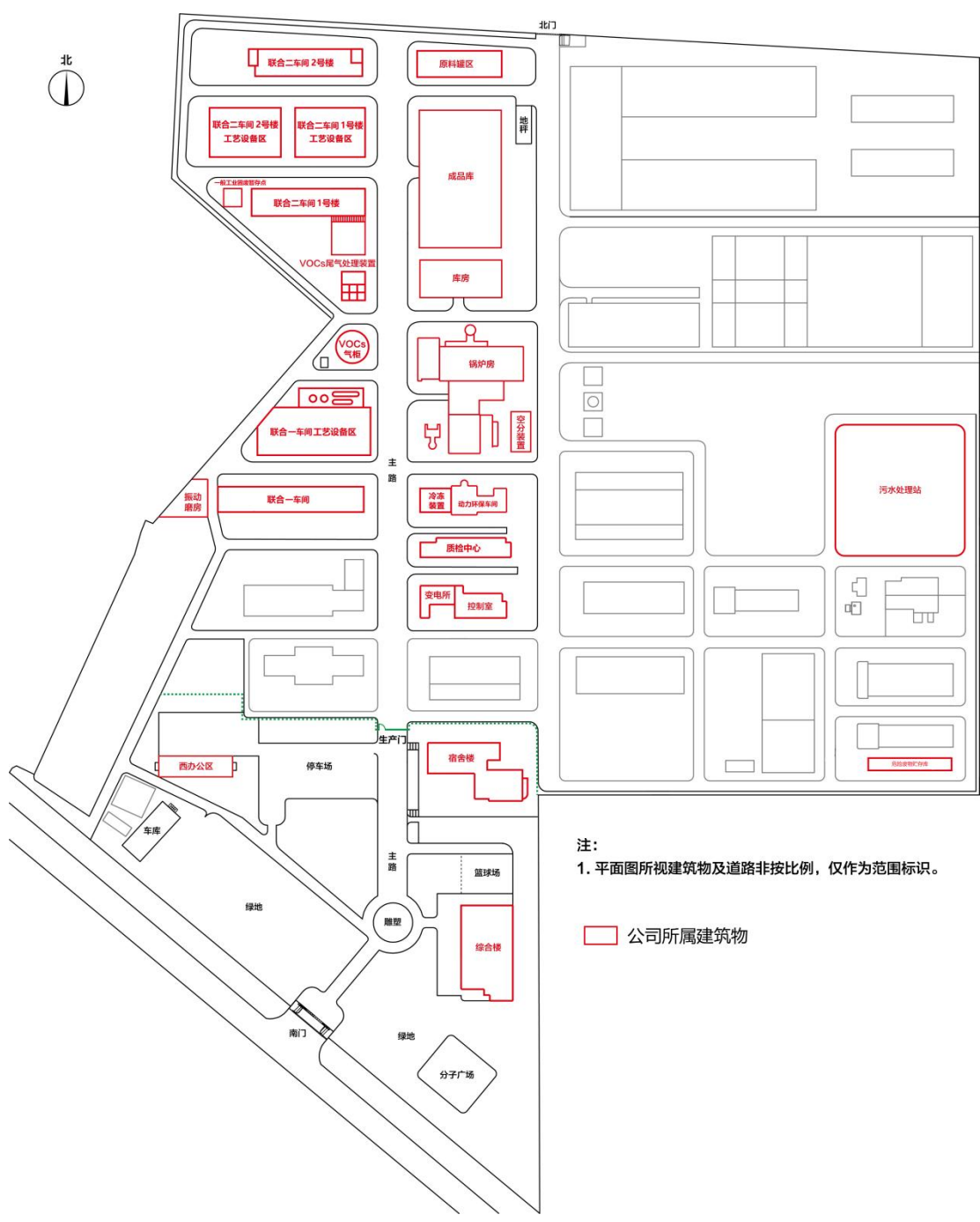


图 22 企业平面布置图

2. 防渗分区图

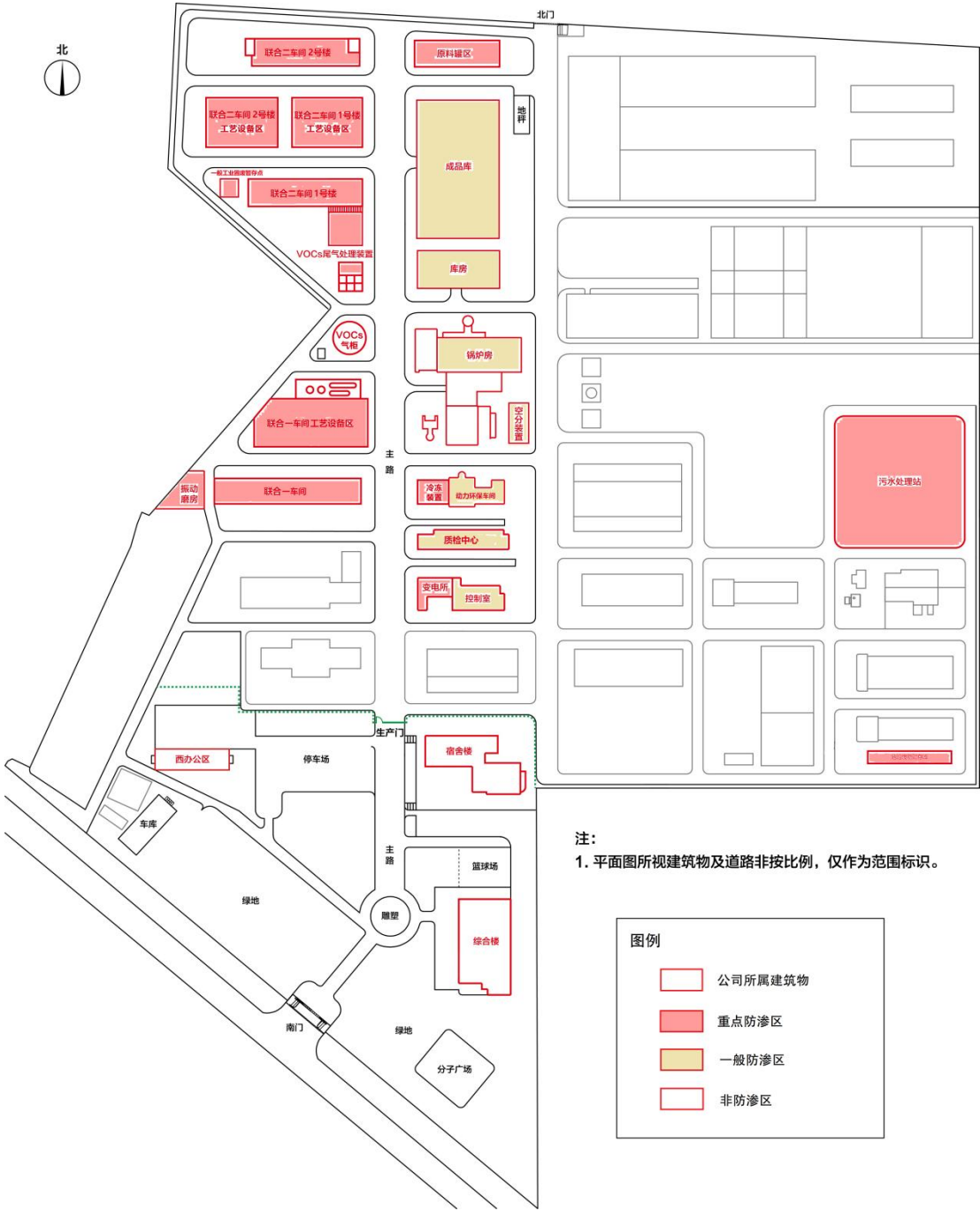


图 23 企业防渗分区图

### 3. 雨污管线图

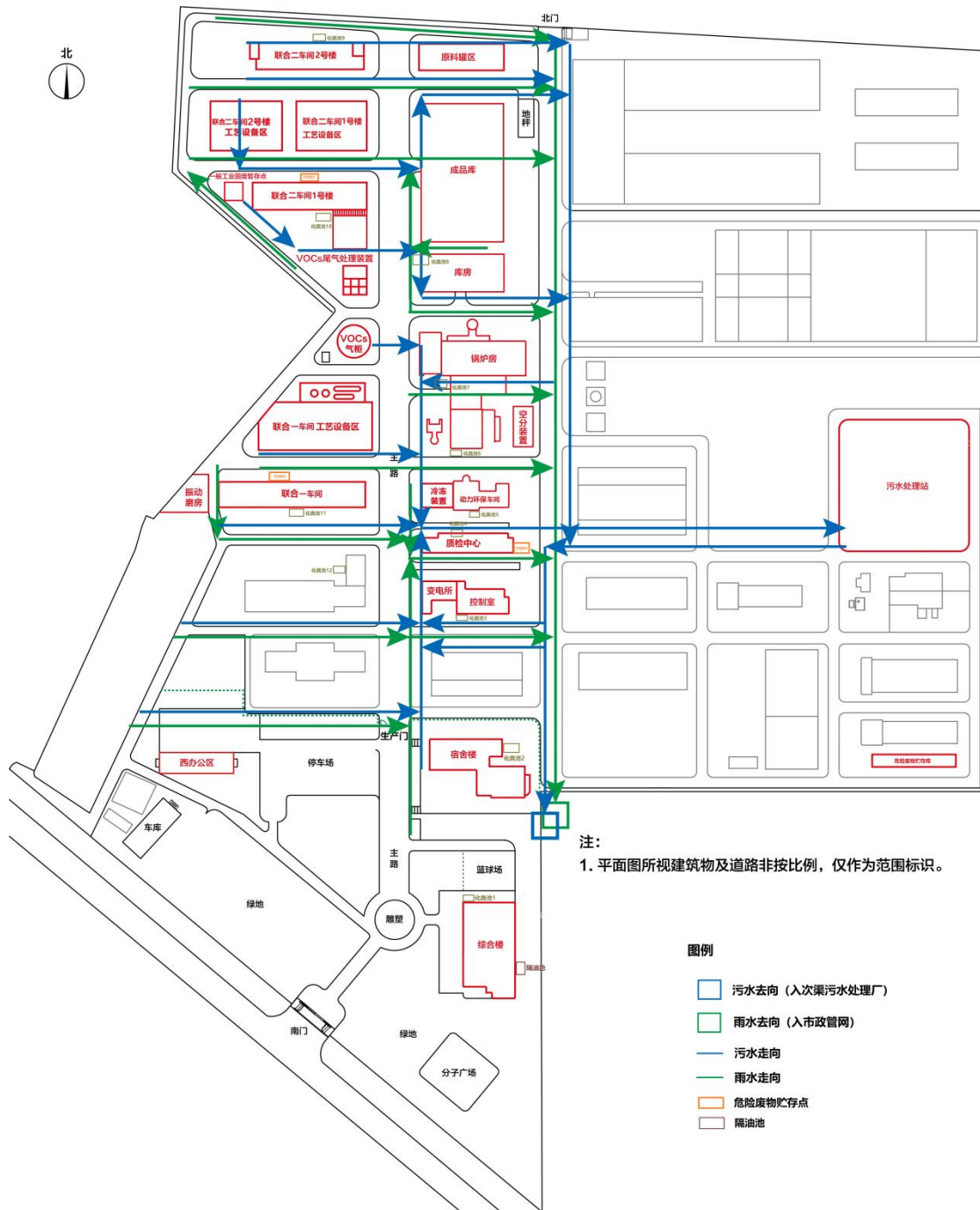


图 24 企业雨污管线图

#### 4. 有毒有害物质清单

| 序号 | 有毒有害物质 | 有毒有害物质所属类别                  |
|----|--------|-----------------------------|
| 1  | 苯      | 列入优先控制化学品名录（第二批）内的物质        |
| 2  | 甲苯     | 列入优先控制化学品名录（第二批）内的物质        |
| 3  | 二甲苯    | 国家和地方建设用地土壤污染风险管控标准管控的污染物   |
| 4  | 苯乙烯    | 国家和地方建设用地土壤污染风险管控标准管控的污染物   |
| 5  | 废有机溶剂  | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 6  | 废矿物油   | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 7  | 废酸     | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 8  | 含汞废物   | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 9  | 含铅废物   | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 10 | 含钛固废   | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 11 | 废碱     | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 12 | 废催化剂   | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 13 | 废石棉    | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 14 | 其他废物   | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |
| 15 | 废镍触媒   | 《中华人民共和国固体废物污染环境防治法》规定的危险废物 |

#### 5. 重点场所和重点设施设备清单

| 序号 | 涉及工业活动      |            | 重点场所或者重点设施设备                                                                        |
|----|-------------|------------|-------------------------------------------------------------------------------------|
| 1  | 液体储存        | 储罐类储存设施    | 原料罐区及原辅料储罐、联合一车间室外工艺设备区、联合二车间室外工艺设备区、动力环保车间冷冻盐水罐区                                   |
|    |             | 池体类储存设施    | 联合二车间沉降池、联合一车间沉降池、动力环保车间雨水收集池、动力环保车间集水井、锅炉房北侧锅炉排水中和池、污水处理站均质池、污水处理站 MBBR 池、污水处理站二沉池 |
| 2  | 散装液体转运与厂内运输 | 管道运输       | 合成、冷冻、抽干和掺合等生产过程的管路                                                                 |
|    |             | 传输泵        | 原料罐区、联合一车间室外工艺设备区、联合二车间室外工艺设备区、动力环保车间冷冻盐水罐区等室外罐组传输泵                                 |
| 3  | 货物的储存和传输    | 包装货物的储存和暂存 | 成品库、库房                                                                              |
| 4  | 生产区         |            | 联合一车间、联合二车间                                                                         |
| 5  | 其他活动区       | 废水排水系统     | 废水排放管路                                                                              |
|    |             | 应急收集设施     | 污水处理站事故池                                                                            |



## 7. 土壤隐患排查制度

# 中国石化催化剂有限公司催化分公司文件

石化催奥达〔2020〕17号

## 关于贯彻落实环境隐患排查 工作方案的通知

为贯彻落实政府有关文件精神要求、中石化集团公司及催化剂有限公司关于环境隐患排查工作，特制定如下工作方案。

### 一、工作目标

以厂界、厂内无异味、有组织废气排放达标、无组织废气得到有效治理，废水合规达标排放，固废依法合规管理与处置，厂界内土壤及地下水不受污染，企业依法合规运行为工作目标，查清并消除影响企业生产与发展的环境问题，做到底数清晰、标准明确、措施有效。

### 二、排查人员及职责划分

各部门（车间）级环境隐患排查以各部门（车间）人员为主，排查出的问题向安全生产（HSSE）委员会环境分委会

图 26 环境隐患排查工作方案

附件 1

## 土壤及地下水专项隐患排查方案

按照地方政府要求，奥达分公司根据《环境隐患排查方案》制定《土壤及地下水专项隐患排查方案》，具体内容如下

### 一、排查频次

至少每月对厂区进行一次环境隐患排查，每年对厂区确定的土壤及地下水监测点位进行一次取样监测，监测项目及要求按照按照国家及北京市土壤及地下水环境监测技术指南等相关规范和标准进行。

按照通州区生态环境局要求，需要在厂区南侧办公区域另外建设一口地下水监测点位作为厂区的北京监测点，另外需要对地下水每年额外进行一次取样监测，监测项目为 2019 年检测出超标的项目，分别为砷、锰、二氯甲烷和氟化物。

### 二、排查重点

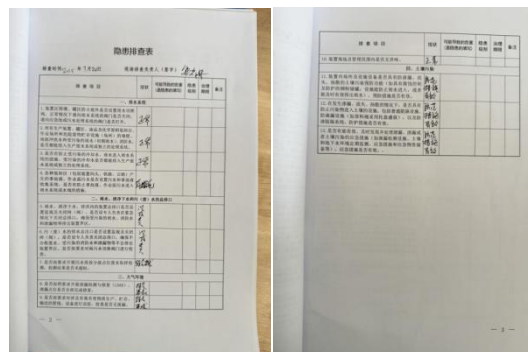
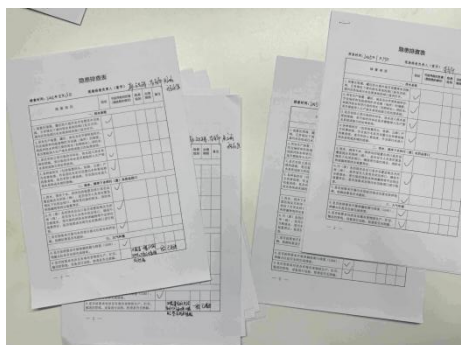
- 1、出现不符合新颁布、修订的关于土壤及地下水部分的相关法律、法规、标准、产业政策等情况；
- 2、有新建、改建、扩建项目设计的；
- 3、突发环境事件风险物质发生重大变化导致突发环境事件风险等级发生变化的；
- 4、生产废水系统、雨水系统、清净下水系统、事故排水系统发生变化的；
- 5、废水总排口、雨水排口、清净下水排口与水环境风险受体连接通道发生变化的；

图 27 土壤及地下水专项隐患排查方案

|                                                                                   |                                                      |                                      |      |                                     |
|-----------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------|------|-------------------------------------|
|  | 制度名称                                                 | 中国石化催化剂有限公司北京奥达分公司<br>土壤和地下水污染防治管理规定 |      |                                     |
|                                                                                   | 制度编号                                                 |                                      |      |                                     |
|                                                                                   | 制度版本                                                 | 1                                    | 主办部门 | 安全环保部                               |
| 所属业务类别                                                                            | 健康安全环境管理/环境保护管理                                      |                                      | 会签部门 | 综合管理部、党群工作部、财务资产部、生产管理部、技术发展部、设备工程部 |
| 下位制度制定                                                                            | /                                                    |                                      | 审核部门 | 综合管理部                               |
| 监督检查者                                                                             | 安全环保部                                                |                                      | 签发日期 |                                     |
| 解释权归属                                                                             | 安全环保部                                                |                                      | 生效日期 | 印发之日                                |
| 制定目的                                                                              | 为了进一步加强公司土壤地下水污染防治管理工作，防止生产过程中造成环境污染和健康危害。           |                                      |      |                                     |
| 制定依据                                                                              | 《中华人民共和国土壤污染防治法》、《北京市土壤污染防治条例》、《中国石化催化剂有限公司环境保护管理细则》 |                                      |      |                                     |
| 适用范围                                                                              | 中国石化催化剂有限公司北京奥达分公司各部门、车间                             |                                      |      |                                     |
| 涉及的相关制度                                                                           | /                                                    |                                      |      |                                     |
| 废止说明                                                                              | /                                                    |                                      |      |                                     |

图 28 土壤和地下水污染防治管理规定

## 8. 日常巡检记录



## 联合一车间隐患排查记录

## 联合二车间隐患排查记录

| 日期  | 时段          | 检测项目 | 噪声 | 粉尘 | 废气 | 废水 | 固废 | 环境风险 | 其他 | 备注 | 巡检人                                                       |
|-----|-------------|------|----|----|----|----|----|------|----|----|-----------------------------------------------------------|
| 11月 | 08:00-09:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    | 同兴<br>王<br>王<br>王<br>王<br>王<br>王<br>王<br>王<br>王<br>王<br>王 |
|     | 09:00-10:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 10:00-11:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 11:00-12:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 12:00-13:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 13:00-14:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 14:00-15:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 15:00-16:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 16:00-17:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 17:00-18:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 18:00-19:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 19:00-20:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
| 12月 | 08:00-09:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    | 同兴<br>王<br>王<br>王<br>王<br>王<br>王<br>王<br>王<br>王<br>王<br>王 |
|     | 09:00-10:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 10:00-11:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 11:00-12:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 12:00-13:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 13:00-14:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 14:00-15:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 15:00-16:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 16:00-17:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 17:00-18:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 18:00-19:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |
|     | 19:00-20:00 | 噪声   | 55 | 无  | 无  | 无  | 无  | 无    | 无  |    |                                                           |

## 环保站巡检记录

## 9. 人员访谈记录

[illegible][illegible][illegible]

|     |                                                                                                                                                                                                                                                                                                 |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13. | 本企业的负责人在经营活动中有下列哪些行为是违反法律的？<br><input type="checkbox"/> ① 公款吃喝<br>是否遵守了本企业的有关财务的审批流程？ <input type="checkbox"/> ② 是否遵守<br>是否遵守了国家的相关法律法规？ <input type="checkbox"/> ③ <input type="checkbox"/> 是否遵守                                                                                               |
| 14. | 本企业的负责人在经营活动中有下列哪些行为是违反法律的？ <input type="checkbox"/> ① <input type="checkbox"/> ② <input type="checkbox"/> ③<br>是否遵守了法律？ <input type="checkbox"/> ④<br>是否遵守了本企业的有关财务的审批流程？ <input type="checkbox"/> ⑤ 是否遵守了国家的相关法律法规？ <input type="checkbox"/> ⑥ 是否遵守了本企业的有关财务的审批流程？ <input type="checkbox"/> ⑦ |
| 15. | 本企业的负责人在经营活动中有下列哪些行为是违反法律的？ <input type="checkbox"/> ① <input type="checkbox"/> ② <input type="checkbox"/> ③<br>是否遵守了法律？ <input type="checkbox"/> ④<br>是否遵守了本企业的有关财务的审批流程？ <input type="checkbox"/> ⑤ 是否遵守了国家的相关法律法规？ <input type="checkbox"/> ⑥ 是否遵守了本企业的有关财务的审批流程？ <input type="checkbox"/> ⑦ |
| 16. | 本企业的负责人在经营活动中有下列哪些行为是违反法律的？ <input type="checkbox"/> ① <input type="checkbox"/> ② <input type="checkbox"/> ③<br>是否遵守了法律？ <input type="checkbox"/> ④<br>是否遵守了本企业的有关财务的审批流程？ <input type="checkbox"/> ⑤ 是否遵守了国家的相关法律法规？ <input type="checkbox"/> ⑥ 是否遵守了本企业的有关财务的审批流程？ <input type="checkbox"/> ⑦ |

[illegible][illegible][illegible]

|                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>17. 本条规定被宣告破产企业破产宣告后破产管理人应履行的职责是( )。</p> <p><input checked="" type="checkbox"/> A 清理破产财产</p> <p>破产宣告后管理人负责清理破产财产并管理破产财产。 <input checked="" type="checkbox"/> B 破产 <input type="checkbox"/> C 清理破产企业未履行的合同 <input type="checkbox"/> D 破产企业未履行的合同</p> | <p>18. 本条规定被宣告破产企业破产宣告后破产管理人应履行的职责是( )。</p> <p><input checked="" type="checkbox"/> A 清理破产财产</p> <p>破产宣告后管理人负责清理破产财产并管理破产财产。 <input checked="" type="checkbox"/> B 破产 <input type="checkbox"/> C 清理破产企业未履行的合同 <input type="checkbox"/> D 破产企业未履行的合同</p> |
| <p>19. 本条规定被宣告破产企业破产宣告后破产管理人应履行的职责是( )。</p> <p><input checked="" type="checkbox"/> A 清理破产财产</p> <p>破产宣告后管理人负责清理破产财产并管理破产财产。 <input checked="" type="checkbox"/> B 破产 <input type="checkbox"/> C 清理破产企业未履行的合同 <input type="checkbox"/> D 破产企业未履行的合同</p> | <p>20. 本条规定被宣告破产企业破产宣告后破产管理人应履行的职责是( )。</p> <p><input checked="" type="checkbox"/> A 清理破产财产</p> <p>破产宣告后管理人负责清理破产财产并管理破产财产。 <input checked="" type="checkbox"/> B 破产 <input type="checkbox"/> C 清理破产企业未履行的合同 <input type="checkbox"/> D 破产企业未履行的合同</p> |

图 29 人员访谈记录