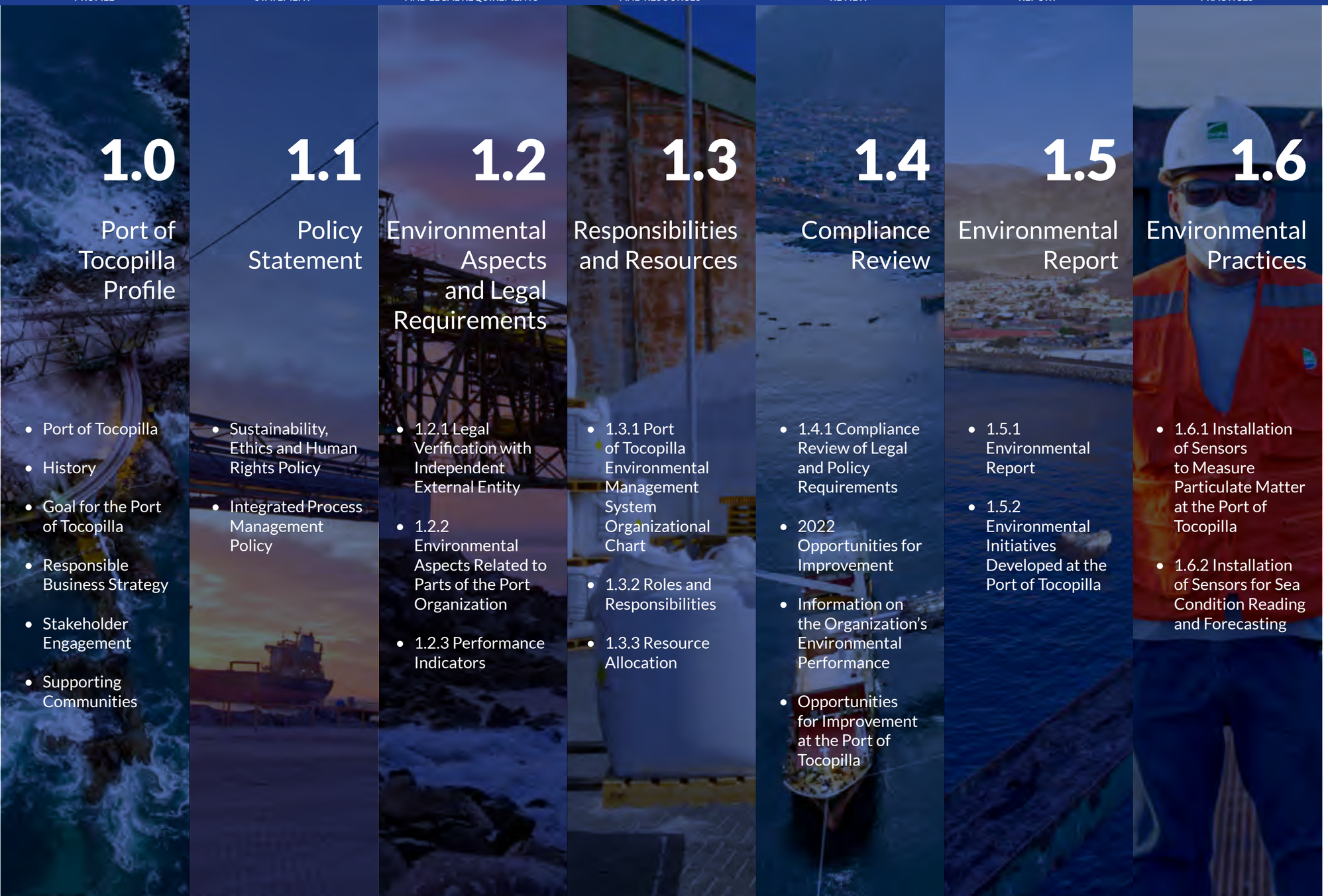
Environmental Report
Port of Tocopilla 2022

SQM
Solutions for human progress

ECOPORTS
PERS CERTIFIED



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1.0 Port of Tocopilla Profile

Port of Tocopilla

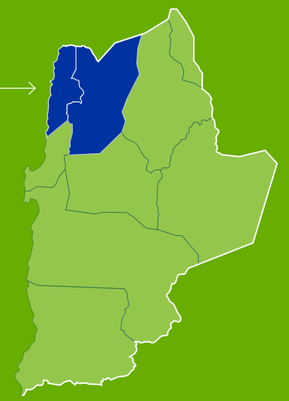
The SQM Port of Tocopilla is part of the operations of the SQM Group, a global chemical company listed on the Santiago Stock Exchange (SSE) and the New York Stock Exchange (NYSE). We produce and develop products such as lithium and derivatives, iodine and derivatives, potassium, specialty plant nutrients and industrial chemicals.

We have production centers in the Tarapacá and Antofagasta regions in Chile and our own shipping port, the SQM Port of Tocopilla, in the Antofagasta Region, which is operated by Servicios Integrales de Tránsitos y Transferencias S.A.

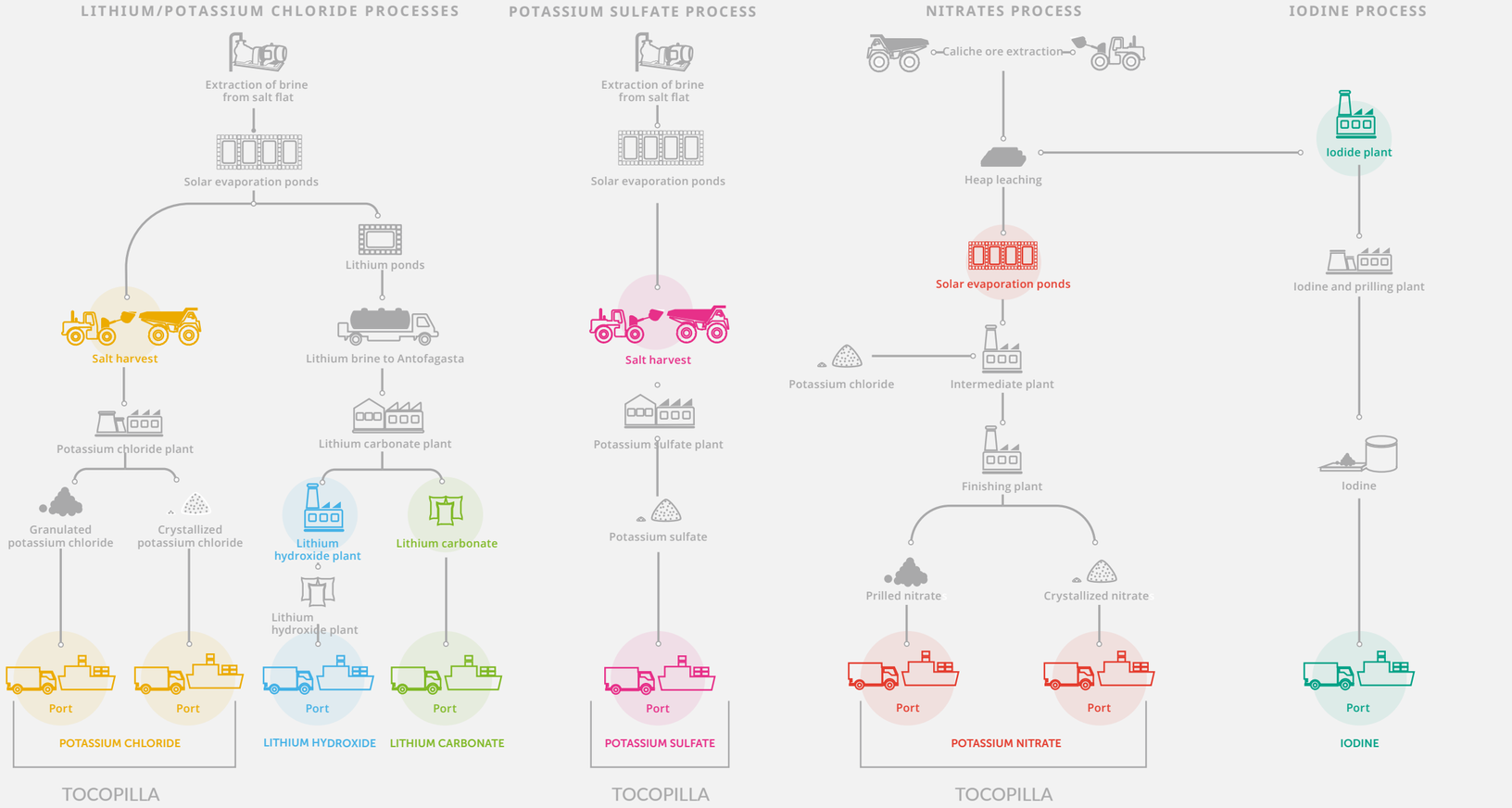
General Information

Company Name:
Servicios Integrales de Tránsitos y Transferencias S.A./
SQM Port of Tocopilla

City:
Tocopilla



Tocopilla Port Services



Port of Tocopilla Information

21 hectares of surface area

6 silos

2 packaging facilities

50 kton of packaged product storage

9 enclosed warehouses

260 kton of bulk storage

1 wharf for loading packaged product

1.9 km of conveyor belts

Facilities and Equipment

- South port gate
- Bulk storage yard
- Packaged product storage yard
- Mixed general storage yard
- Packaging facility
- Silos
- Storage warehouse
- Maintenance workshop
- Maritime operations offices
- Wharf No. 5
- Mechanized arm
- Management offices
- North port gate

Port Operations

Reception Process

- **A** Truck checks in
- **B** Truck weighed
- **C** Truck uncovered
- **D** Truck unloads bulk product in storage areas
- **E** Truck unloads product in sacks in storage areas
- **F** Truck exits port through North Gate

Main Buildings and Storage Areas

1. South gate
2. Bulk storage area
3. Sack storage area
4. Bulk blender
5. Bagging machine
6. Silo feeders
7. Purchasing warehouse
8. Maritime operations offices
9. Maintenance workshop
10. Wharf #5
11. Mechanized arm
12. Port operations offices
13. Wharf #1
14. Supervisor offices
15. North gate

Port Operations

Shipping Process

- **A** Truck loaded in bulk yards
- **B** Truck unloads at pan feeders
- **C** Shipped tons recorded using weightometer
- **D** Bulk product loaded onto ship using conveyor belt system
- **E** Product in sacks transported on lighters from Wharf 5 to ship

Main Buildings and Storage Areas

1. South gate
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14. Supervisor offices
15. North gate

History

Historically, Tocopilla was the point of departure for nitrates that was shipped to destinations around the world. On March 22, 1879, Tocopilla was annexed by Chile as a result of the War of the Pacific. It was declared a major port in 1880. Citizens of Chile, Germany and England organized the mining, transport and shipment of nitrates at the industrial level. A railroad was built to the El Toco area that operated from 1899 to 2015.

In 1915, a thermoelectric plant was inaugurated to power Chuquicamata, the largest copper mine in the world during the 20th century. The Guggenheim process was launched as a result of the power plant, allowing Tocopilla to reenter the global market through the María Elena (1926) and Pedro de Valdivia (1931) nitrates offices.

The mechanization of nitrate shipment in 1961 led to a restructuring of the labor force.

Sociedad Química y Minera de Chile was founded in 1968, and the Port of Tocopilla became part of its operations.

Currently, the Port of Tocopilla is a hub where all of SQM's nitrates and potassium are stored, distributed and shipped.

It is a difficult port, but despite the weather conditions, 60 to 70 ships leave the port each year carrying up to 35,000 tons to their respective destinations. Some 200,000 tons are shipped out of the terminal each month with loading rates of 700 to 900 tons per hour. SQM has achieved that productivity rate through an unprecedented combination of technology and innovation.

Mission

We are a global company with a team of people committed to excellence. Our activities focus on the extraction of minerals that can be selectively integrated into the processing and sale of products for industries essential for human development.

Vision

We are a global company that is recognized for its competitiveness, excellence and innovation in its lines of business. We focus on the development of products essential for human development in accordance with the highest standards of integrity.

Values

- SUSTAINABILITY
- INTEGRITY
- SAFETY
- EXCELLENCE

Goal for the Port of Tocopilla

The Port of Tocopilla's management has set a goal of being the best port alternative for receiving, storing, packaging and shipping products through sustainable, efficient, integrated and safe operations focused on quality and innovation and committed to the development of our people and the community of Tocopilla.

Responsible Business Strategy

We seek to engage in responsible business activities that address global needs, recognizing that evolving means working today to build a better future. The challenges facing SQM with regards to the future involve all business lines. We produce and develop products for essential industries that contribute to human progress and wellbeing, such as: health, nutrition, renewable energy and technological development.

The challenges that humanity is facing today are global, and include inequality, which is increasing with the effects of the climate crisis, socio-economic issues, health challenges, etc.

Our responsible business strategy is defined using a model focused on innovation, research and development in order to sustainably produce and offer effective solutions to contribute to the progress and wellbeing of the world and its people.

Stakeholder Engagement

We define stakeholders internally according to the nature of our business and relationships with them based on four areas: needs, impacts, interests and expectations.

During 2020, we reviewed and consulted with our stakeholders to prepare the company's materiality based on the value chain from communities, our suppliers and our customers. Given the exhaustiveness of the work performed, this definition continues to be applicable for 2022.

Through various instances and opinion studies, we sought to explore the interests and expectations of our stakeholders in order to create and maintain close relationships of trust with each group or person on an ongoing basis. This is achieved through dialogue, creating spaces for coming together such as meetings, working groups or direct contact through the company's various areas depending on the group and their interest in their relationship with SQM.

Stakeholders are identified and assessed, and this process is validated by the Board. Part of the company's work is to consider them in its decisions.

Based on the SQM Corporate Governance Framework, our stakeholders are identified and placed at the heart of our decisions and commitments to our work. We work with them to build relationships based on trust and transparency over time.

Stakeholders include SQM's direct employees with open and fixed-term contracts, shareholders and investors, contractors and suppliers of goods and general or sales services, residents of neighboring communities, community associations, customers, local and regional institutions and organizations, the Innovation Center, local, regional and national authorities and the media.

STAKEHOLDERS	OUR GROWERS	INTERESTS AND EXPECTATIONS
Employees	Workers directly employed by SQM with open and fixed-term contracts.	Salaries, benefits, quality of life, professional development, information about the company.
Shareholders and Investors	The company's main series A and B shareholders.	Capitalization of their investment and financial performance that allows for the sustainability of the company over time.
Contractors and Suppliers	Contractors and suppliers that provide goods and services (both general and sales).	Transparent bidding processes, payments within agreed deadlines and conditions, establishing lasting commercial relations, supplier development.
Customers	Farmers, pharmaceutical companies, car manufacturers and technology companies, among others.	Fulfillment of commitments made regarding product supply and quality in accordance with agreed-upon deadlines, production processes that meet product safety and sustainable standards and regulations, operations, product safety, products that meet required standards.
Community	Residents of communities located near our operations, indigenous communities and community associations.	Creation of direct and indirect jobs, long-term support for the social and economic development of the community and care and appreciation for the environment and community at large. Pertinent, fluid communication.
Organizations and Institutions	Trade associations, private and public foundations, NGOs, institutions in general.	Support to create value for the community, region, country. Committed to initiatives that are of interest to the organization, the company plays an active role in the organization. The company contributes resources for project development.
Innovation, Academic and Research and Development Centers	Chilean and foreign universities and research and innovation centers.	Support for research, studies, new developments that promote innovation, and the organization of seminars, workshops and publications. Creation of enterprises and new business.
Authorities	Local, regional, national and international authorities, regional and national offices and public services.	Creation of value for the community, region and country. Fulfillment of legal obligations and commitments under RCAs (environmental permits) and rules and regulations in foreign countries.
Media	Journalists, newspapers, radio, TV, digital media.	Pertinent and relevant information regarding the company's activities, in its various fields of action.

Supporting Communities

We seek to engage in responsible business activities that address global needs, recognizing that evolving means working today to build a better future. The challenges facing SQM with regards to the future involve all business lines. We produce and develop products for essential industries that contribute to human progress and wellbeing, such as: health, nutrition, renewable energy and technological development.

Our approach to community engagement

Education and Culture

We have complemented and developed programs that the public education system is not addressing, especially in schools located far from major urban centers or with multi-grade classrooms, thus helping improve the quality of education.

Social Development

We have done noteworthy work with farmers to develop projects that involve using technology and innovation for production or to protect their legacy, depending on the community. This comes in addition to entrepreneurship and business support projects in more urban populations through training options and access to funds.

Cultural and Historical Heritage

Projects designed to restore and increase appreciation of heritage sites based on pampa or indigenous cultural legacies depending on the town in areas in which such initiatives are not supported by other companies or the State and cultural traditions or sites are at risk.

Wellbeing, Health and Safety of Communities

This line of work came out of communities' requests for support for athletic or community projects based on needs that local residents identified.

The company complements this work with the support of institutions that foster inclusive sports through women's soccer activities and initiatives designed to include individuals with disabilities.

This set of activities also includes support for healthcare programs such as the mobile dental clinic, professional services and supplies that have been very much in demand due to the pandemic.

Tocopilla Community Initiatives Carried out in 2021

Working groups, community engagement programs and multi-sector coordination in 2021

Tocopilla

- Tocopilla Fishermen's Union Working Group
- Land Transport Safety Consultive Council
- El Puerto Cowork Board of Directors (with the municipality of Tocopilla, the government of Tocopilla and the La Semilla Foundation)

El Puerto Cowork: Promoting Local Development

We continue to support El Puerto Cowork, an initiative from the La Semilla Foundation that promotes development of entrepreneurs and business owners by giving them a space to improve their skills and strengthen their businesses. The initiative contributes to the local economies and to productivity in Tocopilla, where it is based, and María Elena.

Some initiatives developed by El Puerto Cowork in 2021 are listed below:

- The closure of the PAR-CORFO Nitrate Pampa Project, a public-private initiative that allowed 11 entrepreneurs and business owners from María Elena to participate in the program, which lasted over a year, thanks to public and private funding. Over 46 million Chilean pesos were allocated to support entrepreneurs and SMEs in Quillagua and María Elena.
- Execution of the CORFO Emergency Reactivation Support Program (PAR) for the Antofagasta Region. “Strengthening Micro, Small and Medium Enterprises in Tocopilla.” The purpose of this initiative was to improve the economic development of 13 companies in the trade, tourism and services sectors who belong to the Tocopilla Chamber of Commerce and Tourism. The initiative benefited from a CORFO contribution of Ch$54,023,631. Support for entrepreneurs applying for Sercotec Seed Capital and Capital Abeja funds.
- El Puerto Cowork also partnered with the Tocopilla Social Entrepreneurs’ Association in the area of logistics in order to be part of the 2021 Telethon.
- They created a Christmas and New Year’s showroom to showcase the products of 12 entrepreneurs for sale outside of El Puerto Cowork.

Young Leaders from Tocopilla

SQM and the newspaper La Estrella de Tocopilla hosted another version of the Young Leaders program in Tocopilla.

The initiative highlights the efforts of local leaders who work in various areas and contribute to the development of the municipality through solidarity, culture, education and sports, particularly during the pandemic.

Six of the 20 applicants won. They are: athlete Paulo Delgado, tourism entrepreneur Claudia Martínez, oncology foundation leader Solange Gálvez, environmentalist Pablo Postigo, painter and cultural manager Patricio Chavez and years-old Mateo Salazar, who is representing Chile at the I International Virtual Meeting of Gifted and Talented Students in Mexico.

Aprendo Contigo Program

A clear example of reinventing education that was developed during the pandemic was the Aprendo Contigo program launched in 2020 by the Choshuenco Educational Foundation. It provides tools and educational resources to parents and teaching teams in order to allow preschool children to continue to learn while they are at home.

The program focuses on preschool students and their families from 19 schools in Quillagua, María Elena and Tocopilla in the Antofagasta Region. It reached 1,619 children and their families. The program developed teaching activities to help children to reach the learning objectives proposed in the preschool curriculum.

It also facilitates learning processes for teaching teams, creating learning target roadmaps in order to visualize the expected targets in greater detail and reach them more quickly.

ViLTI SeMANN Program

The ViLTI SeMANN program, which is part of Universidad Católica del Norte and has been supported by SQM since 2013, works with early childhood education students in towns like Tocopilla, María Elena and Quillagua.

A total of 600 students from 10 schools benefited from the project, which is designed to enhance their critical thinking, problem solving and teamwork skills using robotics and programming. The initiative allows students to learn by playing, which they are currently able to do on a virtual platform.

Enhancing Education in Northern Chile

Over 3,000 students from five municipalities in the Tarapacá and Antofagasta regions benefited from the “Enhancing Education in Northern Chile” program in 2021. This initiative is financed by SQM and executed by Lab4U and the VOA Foundation, which seeks to promote learning, trust, development and innovation through play and fun experiences.

A total of 11 schools participated in the initiative, and various teachers and schools were recognized for their commitment to it, notably Diego Portales Palazuelos Polytechnic High School in Antofagasta.

Academic Partnerships

In an effort to truly contribute to technical and vocational education, we signed an agreement with the mayor of Tocopilla and assistant provost of the Antofagasta office of INACAP to promote technical and vocational training in Tocopilla.

The initiative is designed to provide technology transfer, technical assistance and continuing education, which positively impact the community's youth. The technical schools benefited include the Diego Portales and Domingo Latrille schools.

Environmental Education for Communities

We have promoted initiatives that transfer knowledge to students and communities regarding environmental care so that they can make decisions about their surroundings and create habits that prevent and resolve environmental issues such as water management, separating waste streams, sustainable crops, etc. We understand that we can play a social role in terms of making people around us aware of topics such as sustainability and the climate crisis.

Caring for the Environment with Verdical

In 2021, over 2,000 students benefited from the installation of two new vertical gardens in the community of Tocopilla. These green spaces will help restore the environment of the Arturo Prat and Bernardo O'Higgins schools, which now have over 500 new plants.

The installation of the 10 m^2 vertical gardens was the final step in an effort that took an entire year and included a series of virtual ecological awareness workshops.

The events were held through Verdical's platform, allowing us to continue to work on topics related to the environment in the municipality of Tocopilla.

Beach Clean-ups in Iquique and Tocopilla

On International Beach Cleanup Day, SQM Corporate Volunteers participated in clean-up efforts at El Salitre Beach in Tocopilla. The initiative was led by DIRECTEMAR and supported by SQM. The volunteers invited them to take part in these initiatives, collecting garbage and recycling.

Karreteando por el Desierto

In 2021, we ratified our commitment to everyone on the Autism spectrum by encouraging their social integration and respecting their rights.

We continued the program “Karreteando por el Desierto,” a project developed by the Tea Antofagasta Foundation, which seeks to provide autism specialists with new tools and support residents of Tocopilla and María Elena with family members on the spectrum.

The lecture series benefited 200 people, providing them a space for training and education in order to provide guidance and reinforce aspects related to the health of people on the spectrum, their families and the community.

Miradas Compartidas Foundation

For the past three years, SQM volunteers have done beautiful work on inclusion with the Miradas Compartida Foundation, which is devoted to social and workplace integration of persons with intellectual disabilities.

The project also continued in Antofagasta, Tocopilla and María Elena, benefiting a total of 2,500 people.

Domingo Latrille High School in Tocopilla

In order to strengthen and enrich learning in the technical specialty of industrial chemistry offered at the school, a work plan was collaboratively designed by teachers and SQM laboratory professionals to hold guided visits of the Coya Sur laboratory and talks by SQM technical experts as well as SQM safety and employability talks. In addition, drug and alcohol use prevention presentations were offered to students, parents and guardians, as were professional internships related to the field.

Diego Portales High School in Tocopilla

During 2021, our work with Diego Portales High School focused on identifying students' professional practica needs in view of the decrease in positions produced during the pandemic. In addition, employability talks were offered to help prepare the applicants.

E-kart Races Rev Engines in María Elena and Tocopilla

All the fun and adrenaline that come with speed took center stage at Plaza Condell in Tocopilla with the first E-Karts electric car race. Northern Chilean families came together to attend a free public event designed to promote the use of electromobility by promoting the sport as part of a fun summer offering.
The initiative reached the Antofagasta Region thanks to a partnership between SQM, the towns of María Elena and Tocopilla, and renowned Chilean Formula 1 driver Eliseo Salazar.

Tocopilla's Anniversary

In September 2021, we partnered with the municipality of Tocopilla to hold a series of athletic and artistic activities as part of the port city's 178th anniversary celebration. These included bodyboard championships; tennis, basketball and volleyball competitions; and activities such as the Night of Memories and Literary Café.

The celebration also included family recreation classes such as Zumba and Adrenaline.

Súper Down Performance in Tocopilla

As part of the celebration of the municipality's 178th anniversary, SQM and the Miradas Compartidas Foundation organized a performance of the inclusive musical Súper Down protagonist is a young superhero who fights to protect the environment.

Plaza Carlos Condell hosted this all-star cast and solidarity-focused musical performance.

Tocopilla Soccer Film Festival

The Tocopilla Province Soccer Film Festival was held for the first time in the context of the traditional Mini-World Cup (*Mundialito de Fútbol*), which has been held for almost 60 years in Tocopilla.

The main theme of this completely free cultural initiative was soccer. The program featured the premiere of the unprecedented documentary *Cóndores Blancos* and interesting discussions with special guests such as Chilean writer and poet Hernán Rivera Letelier and sports journalist Grace Lazcano.

There were four days of cultural festivities in Tocopilla, María Elena and Quillagua, with the Tocopilla Soccer Film Festival, organized and produced by the Cultural Corporation of the Chilean Chamber of Construction and supported by SQM.

In addition, a National Short Film Competition on Soccer for 2022 is being developed (*Concurso de Cortometraje Festival de Futbol Cine de Tocopilla 2022*). The basic requirement is that soccer be part of the story told in the screenplay.

Mini-World Cup

We support the Mini-World Cup Soccer Tournament, where each club takes the name of a country and defends the national colors over the course of one month in the Young Adult and U-10 children's categories. The championship is organized by a commission that is responsible for the league. Sixteen clubs affiliated with the Unión Comunal Liga Deportiva Vecinal de Tocopilla have been participating in this tournament every summer since 1963.

Deportes Tocopilla

We partner with Club Deportes Tocopilla, an organization created in 2006, to prepare the club's athletes to participate in local ANFA tournaments. Over the past few years, the club has improved its participation at a local level in all categories, emphasizing the youth series with a multidisciplinary, age-appropriate approach. The adult team has represented the municipality of Tocopilla throughout the region.

1.1 Policy Statement

SQM Solutions for human progress

Sustainability, Ethics and Human Rights Policy.

As a global company, at SQM we are committed to sustainable development, business ethics, and the respect and promotion of human rights, in accordance with current national and international regulations. Our policy is based on five pillars:

ETHICS AND CORPORATE GOVERNANCE
Conduct business in an ethical and transparent manner; carry out our work in the right way with the right people and in the way that we can feel proud of, creating value for our people, for the community, for our business partners and shareholders, following a high standard of integrity that must prevail over any other business considerations.

WORKERS
People are the center and basis of all our work, which is why we promote respectful labor relations, creating the necessary conditions so that each person can actively develop their abilities in safe spaces. We value meritocracy, and we favor equal opportunities, the inclusion of diversity, non-discrimination and respect for human rights and individual and collective labor rights.

VALUE CHAIN
We are responsible for delivering quality products that strictly comply with the committed standards and applicable regulations, as well as providing timely attention and service to our consumers and clients, through a rigorous Quality Management system. Likewise, we are determined to promote respect for human rights, fair treatment and protection of the environment throughout our entire production chain.

ENVIRONMENT AND SUSTAINABLE DEVELOPMENT
We are committed to sustainable development and strictly subject to current environmental regulations in each of the countries where we carry out our operations, ensuring rigorous evaluation of the possible aspects and impacts of our processes on the environment, responsible management of natural resources, the establishment of pollution protection and prevention measures, the integration of climate change and continuous environmental monitoring, ensuring the care of people, biodiversity and the environment.

COMMUNITIES
We seek to generate shared social value with the communities present in the areas where our operations are carried out. To accomplish this, we promote sustainable local development and respect for each person in the communities through a permanent process of participation and dialog, aimed at achieving agreements of mutual benefit and the generation of plans and programs for community benefit in priority areas such as education, social inclusion, entrepreneurship, rescue of historical heritage and sustainable development.

Likewise, we tend to the continuous and transparent delivery of information on our projects, and we promote participation and consultation, in all cases required by current legislation.

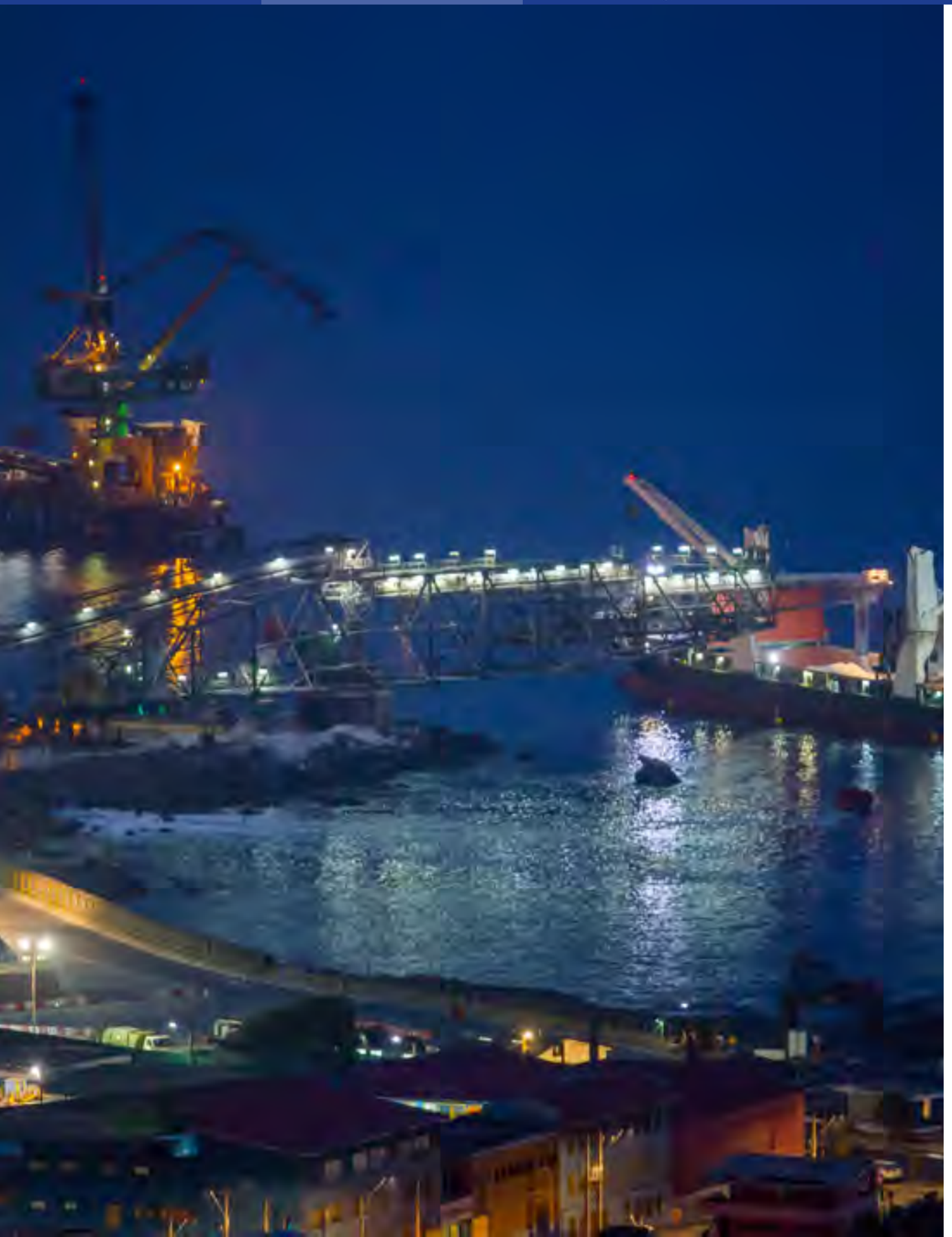
Ricardo Ramos
CEO

April, 2021

SQM has a “Sustainability, Ethics and Human Rights Policy”. Section 4, “Environment and Sustainable Development," lays out its environmental commitments.

Figure 6: Sustainability, Ethics and Human Rights Policy

Website: https://www.sqm.com/wp-content/uploads/2021/06/Sustainability_Ethics_and_Human_Rights_Policy.pdf



SQM Solutions for human progress

INTEGRATED PROCESS MANAGEMENT POLICY.

SQM, as a company with global reach, understanding the responsibility that its work entails and aiming at the continuity of its business in the long term, is committed to sustainable development in harmony with its environment, business ethics, respect and promotion of Human Rights in accordance with current national and international standards. In order to consolidate these commitments from the highest corporate level and throughout our entire operational chain, we make public our Integrated Process Management Policy, based on ISO 9,001, 14,001, 45,001 and 50,001 standards, which establishes complementary commitments to our Sustainability, Ethics and Human Rights Policy of which it forms part.

To fulfill the above, the company establishes the following commitments, which are managed directly through the quality, occupational health and safety, environment, and energy management systems:

- Promote among our workers, contractor companies and interested parties, the prevention of occupational accidents and illnesses, the protection of the environment including the prevention of pollution, the continuous improvement in energy performance and the increase in customer satisfaction.
- Comply with current legal requirements and other requirements applicable to our activities to which we have voluntarily subscribed.
- Ensure the continuous improvement of the Integrated Management System, through the periodic evaluation of its performance, verifying compliance with the policy and the management of the processes, promoting commitment, creativity, and innovation, among others.
- Establish and review indicators and goals, ensuring that they are achievable and measurable through the availability of information and resources for the Integrated Management System, consistent with the strategic objectives and guidelines of the organization.
- Permanently seek for improvement in the provision of services for the satisfaction of our customers, ensuring the quality of processes and incorporating new available technologies.
- Receive and channel inquiries from our workers, contractors, and their representatives, promoting their participation in issues associated with their occupational health and safety, quality, environment, and energy.
- Identify and eliminate hazards in order to assess, control and/or reduce risks to health and safety in our activities, providing healthy and safe working conditions to prevent deterioration of health and injuries to our workers and contractors.
- Support initiatives and actions to protect the environment and conserve biodiversity in our work, based on sustainable development, seeking excellence and innovation in environmental management, through the identification, evaluation, control and reduction of impacts to the environment, as well as the application of sustainable models.
- Encourage the acquisition of energy efficient products and services and support design activities that impact energy performance.
- Establish business continuity strategies in the face of risks and opportunities, that allow the sustainability of our operations based on management systems for quality, occupational health and safety, environment, and energy.

Date of issue: January 2023 /v2.

Ricardo Ramos
CEO

In 2022, SQM began its ISO Standards Integration process as part of its sustainability strategy. The Integrated Process Management Policy was published as part of this effort.

Figure 7: Integrated Process Management Policy

Website: https://www.sqm.com/wp-content/uploads/2023/01/1.GESTION-INTEGRADA-DE-PROCESOS-INGLES_compressed.pdf

1.2 Environmental Aspects and Legal Requirements

1.2.1 Legal Verification with Independent External Entity

The Port of Tocopilla verifies environmental legal compliance as described below:

1. The environmental area of the Port of Tocopilla internally verifies applicable environmental requirements (AER). This verification makes it possible to detect gaps or nonconformities and risks associated with compliance with the AER.

2. Additionally, internal audits are planned annually with teams from other SQM sites and external audits by the certifying company TÜV Rheinland based on ISO 14001:2015 requirements, demonstrating legal environmental compliance by the Port of Tocopilla.

In September 2022, legal verification by an independent third party was added as a requirement of the port's environmental review system (PERS). This verification validated the main environmental aspects of the Port of Tocopilla and its environmental regulatory requirements, providing a signed statement of legal compliance by attorney José Pedro Scagliotti.

ECHEVERRÍA
ILHARREBORDE
SCAGLIOTTI

Santiago, Septiembre 13th, 2022

Legal Statement

José Pedro Scagliotti Ravera, abogado, Identificacion Nacional No. 15.960.054-8, con domicilio en Avenida Apoquindo 3669, Las Condes, Santiago, declara bajo juramento lo siguiente:

Que, en virtud de la revisión y verificación de la matriz de normas y requisitos legales ambientales del Puerto de Tocopilla de SQM S.A., estas son idóneas y pertinentes de acuerdo con los principales aspectos ambientales del puerto, dando así cumplimiento a la normativa legal ambiental vigente. reglamentaciones en Chile.

Lo anterior con el fin de cumplir con los requisitos del Sistema de Revisión Ambiental Portuaria (PERS) para la certificación EcoPorts.

José Pedro Scagliotti

T: (+ 56 2) 3 224 3410
Av. Apoquindo 3669, Of. 301
Las Condes, Santiago
www.e-i.cl

1.2.2 Environmental Aspects Related to Parts of the Port Organization

SQM established its commitment to identifying environmental aspects and impacts at the highest level. One of the pillars of our Sustainability, Ethics and Human Rights Policy is "Identifying Environmental Aspects and Impacts" (IEAI Matrix).

This matrix is used to identify and evaluate all port activities that impact the environment directly or indirectly, establishing special oversight over those that are significant. It encompasses all day-to-day activities, as well as new projects or modifications to the port and other areas in which it can exert control and influence.

The staff assigned by each department or area is responsible for creating and updating the IEAI Matrix with the support of the Environmental Management Department.

Important details regarding IEAI Matrices:

a. They must be updated when new aspects or impacts appear due to changes in processes, new equipment, changes in legislation, etc.

b. If no such changes occur, the IEAI Matrix must still be reviewed and updated at least once a year.

c. The IEAI Matrix has an environmental impact assessment methodology:

   1. Environmental aspects are evaluated using the descriptions and values of "probability," "consequence" and "significance."

   2. The impact assessment formula is defined as: (Probability) x (Consequence)= Significance of Environmental Impact.

The results have the following ranges:

- **Green:** Insignificant, No specific action required.
- **Yellow:** Moderately significant, Operational oversight required
- **Red:** Significant impact, in addition to operational oversight, steps must be taken to determine whether an emergency plan, specific objective or other action is needed.

d. The identification of environmental aspects and impacts should take into account the life cycle and scope of control or influence over the activities.

Legal Requirements

The Port of Tocopilla's environmental regulations mandate a review of legal and regulatory requirements as part of its environmental management system. These are identified in the areas of operation where they are recorded in the internal procedure "Identification and Evaluation of Legal Requirements" (SGA-GE-P002).

The purpose of this procedure is to determine how to identify and access current legal requirements applicable to the organization in environmental matters and to verify the degree of compliance with the requirements in order to comply with the following standards:

ISO 14001:2015 - 6.1.3 "Legal and other requirements"
ISO 14001:2015 - 9.1.2 "Compliance assessment"
Responsible Care - Mandatory Practices; 5th Principle.

Additionally, the Port of Tocopilla incorporated the requirements of the ECOPORTS Standard for the verification of environmental performance exclusive to ports developed by a group of ports that are members of ESPO (European Sea Ports Organization). As such, we have made a commitment to improving our environmental performance based on our environmental management system ISO14.001:2015.

Procedure Methodology:

a) Identification

The Vice President of Legal Affairs will identify the environmental requirements applicable to SQM. For these purposes, the standard, its objective and entry into force will be identified and the Environmental Areas will be informed so that they can review its applicability for each operation or site.

Identification and updating of applicable environmental requirements will be carried out through an ongoing review of the Official Gazette, websites of agencies with jurisdiction over such matters, and reports generated by the Vice President of Legal Affairs and/or external legal advisors and/or trade organizations in which the organization participates.

The AERs will be recorded by each Environmental Area in the "Matrix of Applicable Environmental Requirements" format. Each operation or site will have its own Matrix of Applicable Environmental Requirements. The Environmental Area will inform the area heads of the AER, its objective, scope of application and its entry into force.

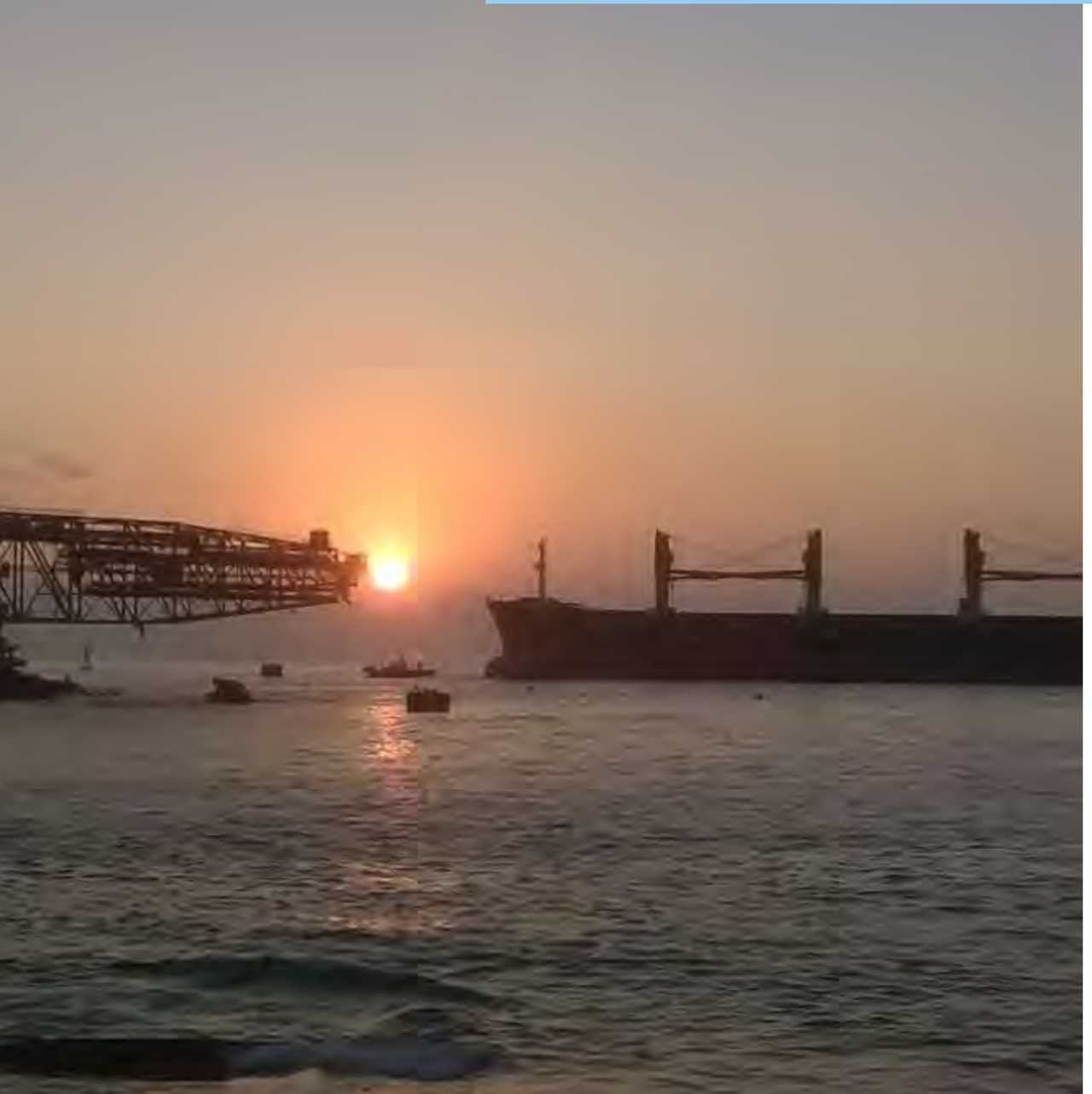
b) Assessment

The Environmental Areas will assess compliance with the AERs. This verification, which is internal in nature, is aimed at confirming the adequacy of the facilities, production systems and control systems based on the applicable requirements. This will make it possible to identify gaps or nonconformities and risks associated with compliance with the AERs.

The verification mechanisms will be defined by each Environmental Area. They should include at least internal and external audits. The foregoing is notwithstanding the annual audit program defined by the Compliance, Risk and Audit Department.

c) Monitoring

In addition, the company will have an integrated management information system that allows for monitoring of the AER and recording and verification of evidence of compliance.



Matrices for Identifying Environmental Aspects and Impacts of the Port of Tocopilla

The Environmental Aspects and Impacts Matrices developed at the Port of Tocopilla are presented below, identifying the significant aspects in the different areas in order to manage and control impacts that may affect operations.

What is an Environmental Aspect?

Environmental aspects are elements of an organization's activities, products or services that interact or may interact with the environment.

Examples:
- Fuel gas emissions
- Gasoline spill
- Particulate matter emissions
- Waste generation

What is an Environmental Impact?

These are the negative or positive changes that occur in the environment due to an environmental aspect.

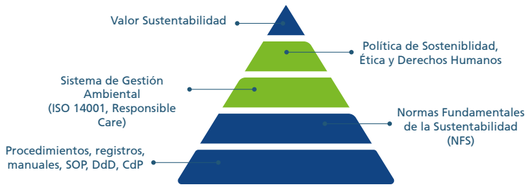
Examples:
- Change in soil, air or water quality
- Change in flora and fauna
- Change in human health
- Visual impact

Bulk Operation Area

¿CUÁL ES NUESTRA ESTRUCTURA DE SUSTENTABILIDAD?

Esta pirámide muestra los elementos que componen nuestra estrategia de sustentabilidad.

La necesidad de identificar los aspectos ambientales y sus potenciales impactos se encuentran en nuestra política ambiental y se materializa a través de nuestro SGA.



¿QUÉ ES UN ASPECTO AMBIENTAL?

Son elementos de las actividades, productos o servicios de una organización que interactúan o pueden interactuar con el medio ambiente.

Ejemplos:

Emisión de gases de combustión
Derrame de gasolina
Emisión de material particulado
Generación de residuos

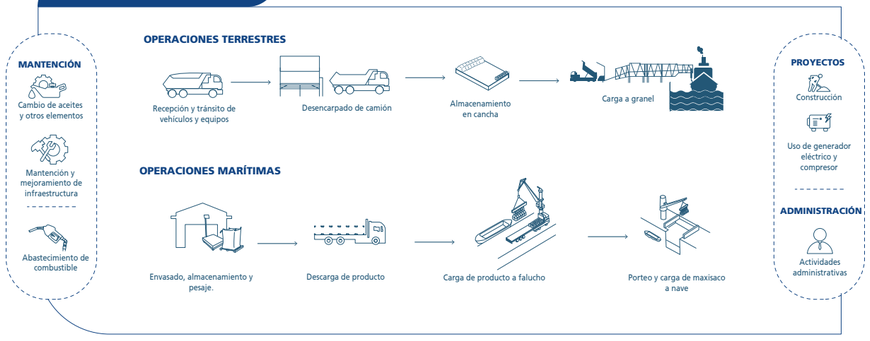
¿QUÉ ES UN IMPACTO AMBIENTAL?

Son los cambios negativos o positivos que se producen en el medio ambiente debido a un aspecto ambiental.

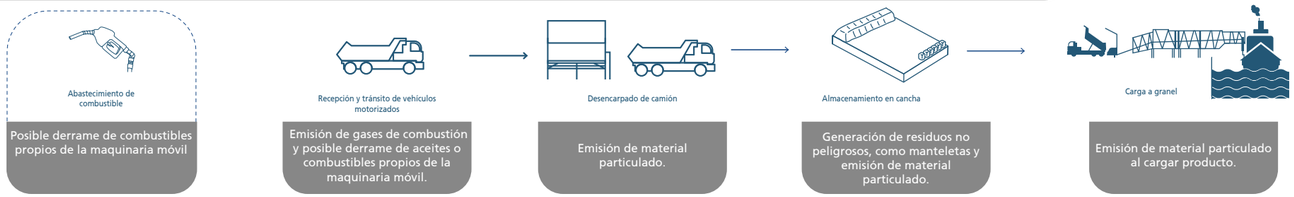
Ejemplos:

Alteración de la calidad del suelo, aire o agua
Alteración de la flora y fauna
Alteración de la salud de las personas
Impacto visual

DIAGRAMA DEL PUERTO



¿CUÁLES SON LOS ASPECTOS AMBIENTALES ASOCIADOS A NUESTRAS ACTIVIDADES EN OPERACIONES GRANEL?



¿CUÁLES SON NUESTROS POTENCIALES IMPACTOS?

¿CÓMO PODEMOS CONTROLARLOS?

Debes conocer y seguir los pasos indicados en el estándar de carga de combustible para autocarga de vehículos. Y en caso de cualquier derrame, sigue los pasos indicados por el Sub Plan de Emergencia y da aviso al área de medio ambiente para que activen el Plan de manejo de residuos peligrosos para su correcta disposición.

Evita derrames de aceite o combustibles de la maquinaria móvil realizando controles de inspección periodicas y aplica Subplan de emergencias en caso de que ocurra.

Preocúpate de segregar los residuos de forma adecuada en las tolvas dispuestas para ello.
Infórmate sobre el estándar de gestión de desechos de manteletas y para la disminución del volumen de las mismas.

Para evitar la emisión de material particulado asegúrate de seguir los pasos indicados en el estándar de Manejo de Producto en Cancha Tapado y Control Emisión Puerto.

Para evitar la emisión de material particulado durante el transporte de producto en correa transportadora debes revisar el estado de las capotas.
Si ves alguna rotura, avisa de inmediato a tu jefatura ya que es un requisito legal.

EPP

Para evitarposibles daños a tu integridad física asegúrate de ocupar EPP entregados por SQM y firmar resgistro de entrega, el que es entregado al comenzar tus actividades en SQM.

Planes de Descontaminación Atmosférica (PDA)

Los Planes de Descontaminación Atmosférica se enmarcan en la Estrategia de Descontaminación Atmosférica 2014-2018 del Ministerio del Medio Ambiente.

Su objetivo es definir e implementar medidas y acciones específicas que permitan reducir los niveles de contaminación del aire y resguardar así la salud de la población.

AUTORIZACIONES SEC

Corresponde a las autorizaciones para que la carga de combustible cumpla los requerimientos de la Superintendencia de Electricidad y Combustible.
Esta autorización debe estar al día

Para conocer más sobre los controles de cada proceso y la documentación nombrada, escanéa el siguiente código QR el cual te guiará a una carpeta con todos los documentos mecionados, como procedimientos, registros, manuales, SOP, DdD, CdP

Bulk Operation Area

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Truck check-in Transit of motorized vehicles inside the port Removal of truck covers	Fuel gas emissions	Change in air quality	Maritime and Land Operations Department Supervisor	Transit Law (Law No. 18.290), Article 82 on gases	Art. 6. - Drivers of motorized or animal-drawn vehicles, with the exception of the previous article, shall carry their license, permit or citation slip and shall prove their identity and present the documents that authorize them to drive to the respective authorities when asked to do so. Likewise, in the case of motor vehicles, they must carry and present the current certificate of a mandatory accident insurance policy, which must always be returned to the driver immediately.	1. Truck technical inspection current in Digital Web Control [2]
	Generation of non-hazardous waste (household waste generated by drivers, plastic, cans, paper)	Change in soil quality	Maritime and Land Operations Department Supervisor	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5.- Obligations of waste generators. Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	2. Recycling centers installed in the port to dispose of segregated waste [2]
	Generation of non-hazardous waste (industrial waste tarps)	Change in soil quality	Maritime and Land Operations Department Supervisor	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5.- Obligations of waste generators. Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	2. Recycling centers installed in the port to dispose of segregated waste [2] 3. Standard on waste cloth [2] 4. Standard on reducing cloth volume [2]
	Particulate matter emissions / dust	Change in soil quality	Maritime and Land Operations Department Supervisor			* Particulate matter collection with the use of floor sweepers * Storage of collected material in yard 10B for reprocessing

Bulk Operation Area *(continued)*:

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Truck check-in Transit of motorized vehicles inside the port Removal of truck covers	Particulate matter emissions / dust	Change in air quality	Maritime and Land Operations Department Supervisor			
		Change in human health	Maritime and Land Operations Department Supervisor	SD 70 Establishes an Atmospheric Decontamination Plan for the City of Tocopilla and the surrounding area	Art. 3.- The emitting activities shall reduce their emissions according to the following Table No. 3: 6 tons/year PM	Study of PPE use
	Fuel consumption - gas (vehicle traffic)	Natural resource consumption	Maritime and Land Operations Department Supervisor			* Measurement and Monitoring of Consumption KPI (Environmental Objective)
	Fire threat	Change in soil and air quality	Maritime and Land Operations Department Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers compatible with the stored products in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall align with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Health and Environmental Conditions in Workplaces.	1. Fire Emergency Sub Plan * Fire study
	Lubricating oil/petroleum oil spill	Change in soil quality	Maritime and Land Operations Department Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	SD 43 Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers compatible with the stored products in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall align with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Health and Environmental Conditions in Workplaces. SD 148 Art. 1 - This regulation establishes the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject.	* Spill Emergency Sub Plan_ rev0 [2] 36. Hazardous Waste Storage Site [1]
	Generation of non-hazardous waste (wood, paper, cardboard, plastics, foam, etc.)	Change in soil quality	Maritime and Land Operations Department Supervisor	SD 594/2000 "Regulations on basic health and environmental conditions in workplaces"	SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	2. Recycling centers installed in the port to dispose of segregated waste [2]

Bulk Operation Area *(continued)*:

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Truck check-in Transit of motorized vehicles inside the port Removal of truck covers	Product spill (fall from truck)	Visual impact	Maritime and Land Operations Department Supervisor	SD 298 "Transport of hazardous cargo through streets and roads"	Article 6 - In the transport of hazardous substances in bulk, vehicles shall meet the technical conditions necessary to withstand loading, unloading and transshipment operations, and the carrier shall be responsible for such conditions.	* Collection of material with the use of floor sweepers Collection of material by vacuum truck * Storage of collected material in yard 10B for reprocessing
		Change in human health	Maritime and Land Operations Department Supervisor	SD 298 "Transport of hazardous cargo through streets and roads"	Art. 26.- During transportation, the driver of the vehicle is obliged to use the corresponding personal protection elements when participating in an action for which these personal protection elements are required.	Study of PPE use

Bulk Operation Area *(continued)*:

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Truck fueling	Fire threat	Change in soil and air quality	Maritime and Land Operations Department Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Sanitary and Environmental Conditions in Workplaces.	1. Fire Emergency Sub Plan
	Oil spill	Change in soil quality	Maritime and Land Operations Department Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces	SD 43 Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Sanitary and Environmental Conditions in Workplaces. SD 148 Art. 1 - This regulation establishes the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject.	* Spill Emergency Sub Plan_ rev0 [2] 36. Hazardous Waste Storage Site [1]
	Fuel consumption -gas	Natural resource consumption	Maritime and Land Operations Department Supervisor			7. Hazardous waste management plan [2] 8. Spill containment material [2] 6. Spill Emergency Sub Plan_rev0 [2] 9. SEC Authorizations [5] 10. Fueling standard for self-fueling vehicles [5]

Bulk Operation Area *(continued)*:

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Storage areas	Particulate matter emissions / dust	Change in human health	Maritime and Land Operations Department Supervisor	SD 70 Establishes an Atmospheric Decontamination Plan for the City of Tocopilla and the surrounding area	Art. 3.- The emitting activities shall reduce their emissions according to the following Table No. 3: 6 tons/year PM	11. Product capping procedure on the court [2] 12. Port emission control standard - Shipping Flows [2] * Environmental screens [1]
		Visual impact	Maritime and Land Operations Department Supervisor			11. Product capping procedure on the court [2] 12. Port emission control standard - Shipping Flows [2] * Environmental screens [1]
		Change in air quality	Maritime and Land Operations Department Supervisor			11. Product capping procedure in the area [2] 12. Port emission control standard - Shipping Flows [2] * Environmental screens [1]
	Fire threat	Fire suppression Change in soil and air quality	Maritime and Land Operations Department Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Sanitary and Environmental Conditions in Workplaces.	1. Fire Emergency Sub Plan

Bulk Operation Area *(continued)*:

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Storage areas	Lubricating oil/petroleum oil spill	Change in soil quality	Maritime and Land Operations Department Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	SD 43 Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers compatible with the stored products in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall align with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Health and Environmental Conditions in Workplaces. SD 148 Art. 1 - This regulation establishes the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject.	* Spill Emergency Sub Plan_ rev0 [2] 36. Hazardous Waste Storage Site [1]
	Generation of non-hazardous waste (SOP, others)	Visual impact	Maritime and Land Operations Department Supervisor	SD 594/2000 Regulations on basic health and environmental conditions in workplaces Environment Ministry Law 20920/2016	Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Sanitary and Environmental Conditions in Workplaces.	2. Recycling centers installed in the port to dispose of segregated waste [2]
		Change in human health	Maritime and Land Operations Department Supervisor			

Bulk Operation Area *(continued)*:

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Loading of bulk product onto ship using conveyor belts	Particulate matter emissions / dust	Changes to flora, fauna and habitat	Maritime and Land Operations Department Supervisor			
		Change in air quality	Maritime and Land Operations Department Supervisor	SD 70 Establishes an Atmospheric Decontamination Plan for the City of Tocopilla and the surrounding area	Art. 3.- The emitting activities shall reduce their emissions according to the following Table No. 3: 6 tons/year PM	19. Installation of hoods and dust collectors [1] 12. Port emission control standard - Shipping Flows [2]. Monthly planning of cleaning of mechanized arm in specific sectors
	Particulate matter emissions / dust	Change in human health	Maritime and Land Operations Department Supervisor	SD 70 Establishes an Atmospheric Decontamination Plan for the City of Tocopilla and the surrounding area	Art. 3.- The emitting activities shall reduce their emissions according to the following Table No. 3: 6 tons/year PM	19. Installation of hoods and dust collectors [1] 12. Port emission control standard - Shipping Flows [2]. Monthly planning of cleaning of mechanized arm in specific sectors
	Fire threat	Change in soil and air quality	Maritime and Land Operations Department Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Sanitary and Environmental Conditions in Workplaces.	1. Fire Emergency Sub Plan

Bulk Operation Area *(continued)*:

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Loading of bulk product onto ship using conveyor belts	Product spill	Changes to flora, fauna and habitat	Maritime and Land Operations Department Supervisor	SD 594/2000 Regulations on basic health and environmental conditions in workplaces	SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	* Collection of material with the use of floor sweepers * Storage of collected material in area 10B for reprocessing
	Electricity consumption	Natural resource consumption	Maritime and Land Operations Department Supervisor			* Measurement and Monitoring of Consumption KPI (Environmental Objective)
Truck blowing (compressors)	Particulate matter emissions / dust	Change in soil quality	Maritime and Land Operations Department Supervisor			* Collection of material with the use of floor sweepers * Storage of collected material in court 10B for reprocessing
		Change in air quality	Maritime and Land Operations Department Supervisor	SD 70 Establishes an Atmospheric Decontamination Plan for the City of Tocopilla and the surrounding area	Art. 3.- The emitting activities shall reduce their emissions according to the following Table No. 3: 6 tons/year PM	20. Compressor maintenance [5]
		Change in human health	Maritime and Land Operations Department Supervisor	SD 70 Establishes an Atmospheric Decontamination Plan for the City of Tocopilla and the surrounding area	Art. 3.- The emitting activities shall reduce their emissions according to the following Table No. 3: 6 tons/year PM	Study of PPE use
	Electricity consumption	Natural resource consumption	Maritime and Land Operations Department Supervisor			* Measurement and Monitoring of Consumption KPI (Environmental Objective)

Maritime Operations

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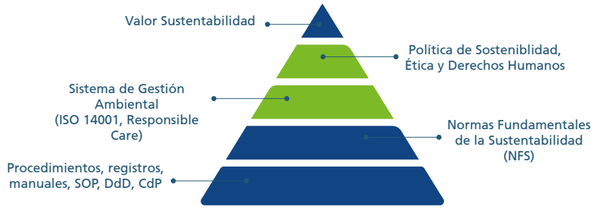

¿QUÉ ES UN ASPECTO AMBIENTAL?

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Ejemplos:

Emisión de gases de combustión
Derrame de gasolina
Emisión de material particulado
Generación de residuos

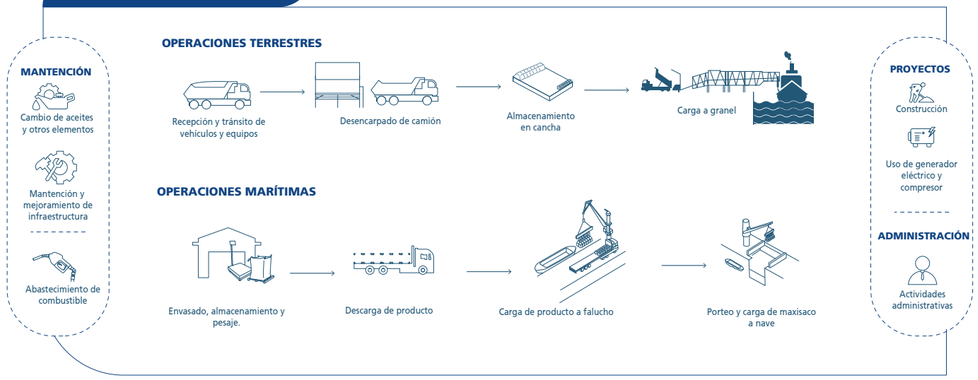
¿QUÉ ES UN IMPACTO AMBIENTAL?

Son los cambios negativos o positivos que se producen en el medio ambiente debido a un aspecto ambiental.

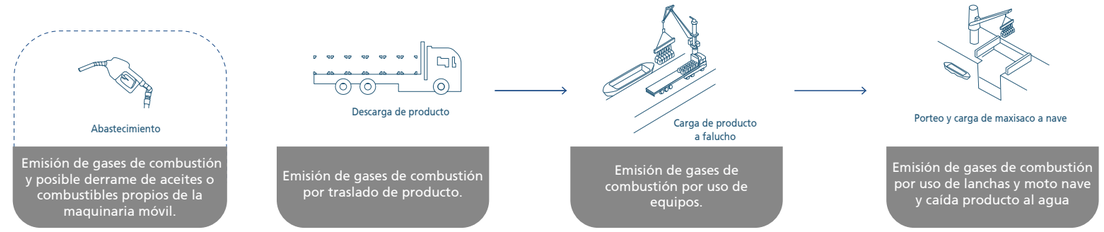
Ejemplos:

Alteración de la calidad del suelo, aire o agua
Alteración de la flora y fauna
Alteración de la salud de las personas
Impacto visual

DIAGRAMA DEL PUERTO

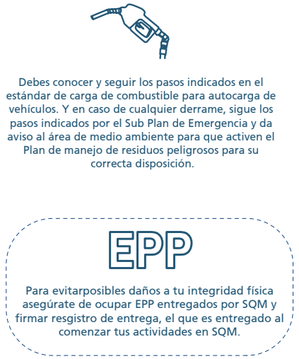


¿CUÁLES SON LOS ASPECTOS AMBIENTALES ASOCIADOS A NUESTRAS ACTIVIDADES EN OPERACIONES MARÍTIMAS?



¿CUÁLES SON NUESTROS POTENCIALES IMPACTOS?

¿CÓMO PODEMOS CONTROLARLOS?



Maritime Operations

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Unloading of product in sacks from truck to lighters Loading of product in sacks onto ship using lighters	Emission of combustion gases (use in lighters and motorboats)	Change in air quality	Maritime and Land Operations Department Supervisor			39. Maintenance certificates and boat checks [2]
	Generation of non-hazardous waste (plastic, cans, others)	Change in soil quality	Maritime and Land Operations Department Supervisor	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5. Waste generator obligations Every waste generator shall deliver it to an authorized entity for treatment in accordance with current regulations unless it proceeds to manage it by itself in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	2. Recycling centers installed in the port to dispose of segregated waste [2]
	Product spillage (bag breakage)	Change in soil quality	Maritime and Land Operations Department Supervisor	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5.- Obligations of waste generators. Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	2. Recycling centers installed in the port to dispose of segregated waste [2] 3. Standard on waste cloth [2] 4. Standard on reducing cloth volume [2]
	Particulate matter emissions / dust	Change in soil quality	Maritime and Land Operations Department Supervisor			40. Standard for removing broken maxi from vessel [2] 41. Standard for final ship cleaning [2] 42. Non-conforming product treatment procedure OOMM-PTS09-02 [2]

Maritime Operations *(continued)*

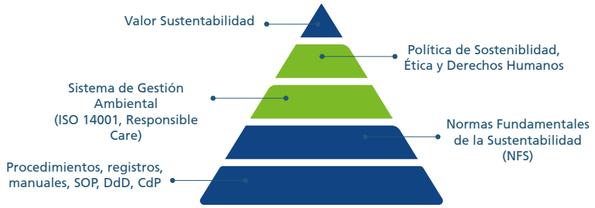
SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Unloading of product in sacks from truck to lighters Loading of product in sacks onto ship using lighters	Product spill (SQM products)	Change in sea quality	Maritime and Land Operations Department Supervisor			40. Standard for removing broken maxi from vessel [2] 41. Standard for final ship cleaning [2] 42. Non-conforming product treatment procedure OOMM-PTS09-02 [2]
	Gas consumption (use in lighters and motorboats)	Change in air quality	Maritime and Land Operations Department Supervisor			* Measurement and Monitoring of Consumption KPI (Environmental Objective)
	Lubricating oil/petroleum oil spill (use in lighters and motorboats)	Change in sea quality	Maritime and Land Operations Department Supervisor	Ordinary 12600/47 DGTM and MM.	OBJ: Provides and establishes the procedure for preparing and filing Contingency Response Plans for preventing water pollution by hydrocarbons or other noxious liquid polluting substances or substances that can pollute, minimum response material and guidelines for companies engaged in the tasks of containment, recovery, cleaning and final disposal of recovered waste.	43. Spill Contingency Plan HC [2] 44. "Spill at Sea" Simulation [2] Hydrocarbon Sensor
	Fire threat (use in lighters and motorboats)	Change in soil quality	Maritime and Land Operations Department Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Sanitary and Environmental Conditions in Workplaces.	1. Fire Emergency Sub Plan
	Electricity consumption (crane)	Natural resource consumption	Maritime and Land Operations Department Supervisor			* Measurement and Monitoring of Consumption KPI (Environmental Objective)

Packaging

¿CUÁL ES NUESTRA ESTRUCTURA DE SUSTENTABILIDAD?

Esta pirámide muestra los elementos que componen nuestra estrategia de sustentabilidad.

La necesidad de identificar los aspectos ambientales y sus potenciales impactos se encuentran en nuestra política ambiental y se materializa a través de nuestro SGA.



¿QUÉ ES UN ASPECTO AMBIENTAL?

Son elementos de las actividades, productos o servicios de una organización que interactúan o pueden interactuar con el medio ambiente.

Ejemplos:

Emisión de gases de combustión
Derrame de gasolina
Emisión de material particulado
Generación de residuos

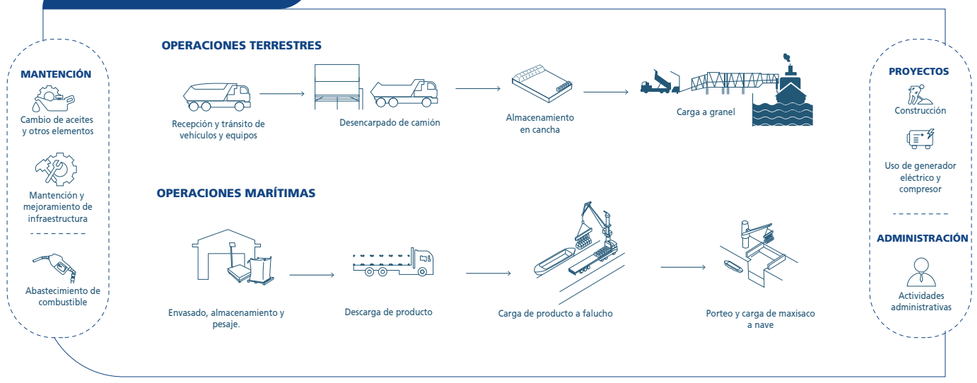
¿QUÉ ES UN IMPACTO AMBIENTAL?

Son los cambios negativos o positivos que se producen en el medio ambiente debido a un aspecto ambiental.

Ejemplos:

Alteración de la calidad del suelo, aire o agua
Alteración de la flora y fauna
Alteración de la salud de las personas
Impacto visual

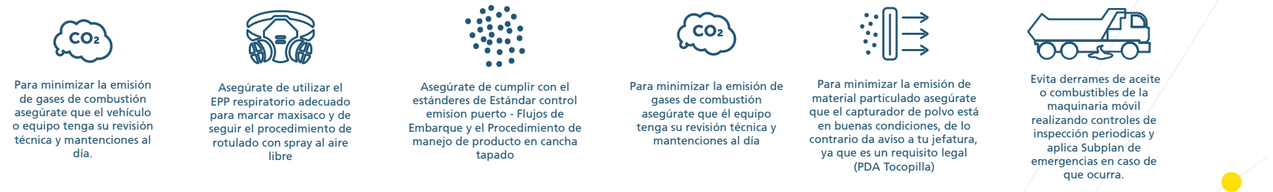
DIAGRAMA DEL PUERTO



¿CUÁLES SON LOS ASPECTOS AMBIENTALES ASOCIADOS A NUESTRAS ACTIVIDADES EN EL ENVASADO?

¿CUÁLES SON NUESTROS POTENCIALES IMPACTOS?

¿CÓMO PODEMOS CONTROLARLOS?



EPP

Para evitarposibles daños a tu integridad física asegúrate de ocupar EPP entregados por SQM y firmar registro de entrega, el que es entregado al comenzar tus actividades en SQM.

Planes de Descontaminación Atmosférica (PDA)

Los Planes de Descontaminación Atmosférica se enmarcan en la Estrategia de Descontaminación Atmosférica 2014-2018 del Ministerio del Medio Ambiente.

Su objetivo es definir e implementar medidas y acciones específicas que permitan reducir los niveles de contaminación del aire y resguardar así la salud de la población.

Packaging

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Packaging operation activities (production, reception and transport of vehicles, equipment)	Generation of non-hazardous waste (maxibag, 25 kg sacks, etc.)	Visual impact	Production and Packaging Supervisor	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5. Waste generator obligations Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	22. EN-P006 Bagging of Sacks and Maxibags in Bagging Machine [2]
		Change in soil quality	Production and Packaging Supervisor	Environment Ministry Law 20920/2016	Law 20920-Art. 5. Waste generator obligations Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article.	22. EN-P006 Bagging of Sacks and Maxibags in Bagging Machine [2]
	Particulate matter emissions / dust	Change in human health	Production and Packaging Supervisor			23. Dust collector. [1] 24. PPE Study [2] 25. Signage in the packaging sector regarding mandatory use of PPE [3] 26. PPE delivery record [5]
		Change in air quality	Production and Packaging Supervisor	SD 70 Establishes an Atmospheric Decontamination Plan for the City of Tocopilla and the surrounding area	Art. 3.- The emitting activities shall reduce their emissions according to the following Table No. 3: 6 tons/year PM	23. Dust collector. [1]
	Fuel consumption - gas (vehicle traffic)	Natural resource consumption	Production and Packaging Supervisor			* Measurement and Tracking of Consumption KPI (Environmental Objective)

Packaging *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Packaging operation activities (production, reception and transport of vehicles, equipment)	Generation of non-hazardous waste (plastic, cans, others)	Change in soil quality	Production and Packaging Supervisor	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5. Waste generator obligations Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	2. Recycling centers installed in the port to dispose of segregated waste [2]
	Product spill (fall from bagging machine)	Visual impact	Production and Packaging Supervisor			23. Dust collector. [1] *Product reprocessing *Product recovery to yard 10 B
	Fire threat	Change in soil and air quality	Production and Packaging Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Sanitary and Environmental Conditions in Workplaces.	1. Fire Emergency Sub-Plan Fire Extinguisher Control Spreadsheet
	Generation of non-hazardous waste (wood, paper, cardboard, plastic film, etc.)	Visual impact	Production and Packaging Supervisor	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5.- Obligations of waste generators. Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	2. Recycling centers installed in the port to dispose of segregated waste [2] 34. Sorting yard (hoppers)

Packaging *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Packaging operation activities (production, reception and transport of vehicles, equipment)	Consumption of materials (wood, paper, cardboard, plastic film, etc.)	Natural resource consumption	Production and Packaging Supervisor			* Measurement and Monitoring of Consumption KPI (Environmental Objective)
	Consumption of materials (bag labeling aerosols)	Change in air quality	Production and Packaging Supervisor			
		Change in human health	Production and Packaging Supervisor			28. Use of respiratory PPE [2] 29. Outdoor spray marking procedure [2]
	Generation of hazardous waste (aerosol paint containers)	Change in soil quality	Production and Packaging Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 sanitary warehouse RESPEL [1] 38. RESPEL warehouse delivery checklist [2]
		Visual impact	Production and Packaging Supervisor	SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	
	Electricity consumption	Natural resource consumption	Production and Packaging Supervisor			*Measurement and Monitoring of Consumption KPI (Environmental Objective)

Packaging *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Packaging operation activities (production, reception and transport of vehicles, equipment)	Lubricating oil/petroleum oil spill	Change in soil quality	Production and Packaging Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	SD 43 Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Sanitary and Environmental Conditions in Workplaces. SD 148 Art. 1 - This regulation establishes the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject.	* Spill Emergency Sub Plan_ rev0 [2] 36. Hazardous Waste Storage Site [1]
	Fire threat	Change in soil and air quality	Production and Packaging Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Sanitary and Environmental Conditions in Workplaces.	1. Fire Emergency Sub Plan
	Fuel gas emissions	Change in air quality	Production and Packaging Supervisor	Law No. 18,290 Transit Law	Art. 78.- Motor vehicles shall be equipped, adjusted or carbureted so that the engine does not emit polluting materials or gases at a higher rate than those allowed.	30. Technical inspections [2] 31. Janssen preventive maintenance programs [2]

Packaging *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Transport to dock and truck dispatch	Fire threat	Change in soil and air quality	Production and Packaging Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Sanitary and Environmental Conditions in Workplaces.	1. Fire Emergency Sub Plan
	Fuel consumption - gas (vehicle traffic)	Natural resource consumption	Production and Packaging Supervisor			* Measurement and Monitoring of Consumption KPI (Environmental Objective)
	Lubricating oil/petroleum oil ppill	Change in soil quality	Production and Packaging Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	SD 43 Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Sanitary and Environmental Conditions in Workplaces. SD 148 Art. 1 - This regulation establishes the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject.	* Spill Emergency Sub Plan_ rev0 [2] 36. Hazardous Waste Storage Site [1]
	Fuel gas emissions	Change in air quality	Production and Packaging Supervisor	Law No. 18,290 Transit Law	Art. 78.- Motor vehicles shall be equipped, adjusted or carbureted so that the engine does not emit polluting materials or gases at a higher rate than those allowed.	30. Technical inspections 31. Janssen preventive maintenance programs [2] Preventative truck maintenance program

Packaging *(continued)*

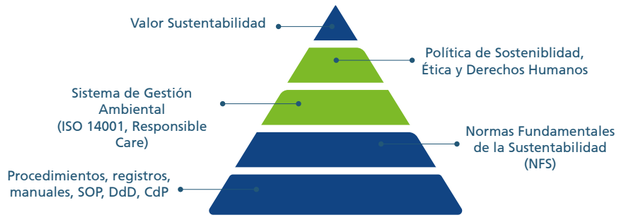
SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Bin transfer and/or cleaning	Particulate matter emissions / dust	Change in human health	Production and Packaging Supervisor	SD 70 Establishes an Atmospheric Decontamination Plan for the City of Tocopilla and the surrounding area	Art. 3.- The emitting activities shall reduce their emissions according to the following Table No. 3: 6 tons/year PM	24. PPE Study [2] 25. Signage in the packaging sector regarding the mandatory use of PPE [3] 26. PPE delivery record [5]
		Change in soil quality	Production and Packaging Supervisor			
		Change in air quality	Production and Packaging Supervisor	SD 70 Establishes an Atmospheric Decontamination Plan for the City of Tocopilla and the surrounding area	Art. 3.- The emitting activities shall reduce their emissions according to the following Table No. 3: 6 tons/year PM	23. Dust collector [1]

Maintenance

¿CUÁL ES NUESTRA ESTRUCTURA DE SUSTENTABILIDAD?

Esta pirámide muestra los elementos que componen nuestra estrategia de sustentabilidad.

La necesidad de identificar los aspectos ambientales y sus potenciales impactos se encuentran en nuestra política ambiental y se materializa a través de nuestro SGA.



¿QUÉ ES UN ASPECTO AMBIENTAL?

Son elementos de las actividades, productos o servicios de una organización que interactúan o pueden interactuar con el medio ambiente.

Ejemplos:

Emisión de gases de combustión
Derrame de gasolina
Emisión de material particulado
Generación de residuos

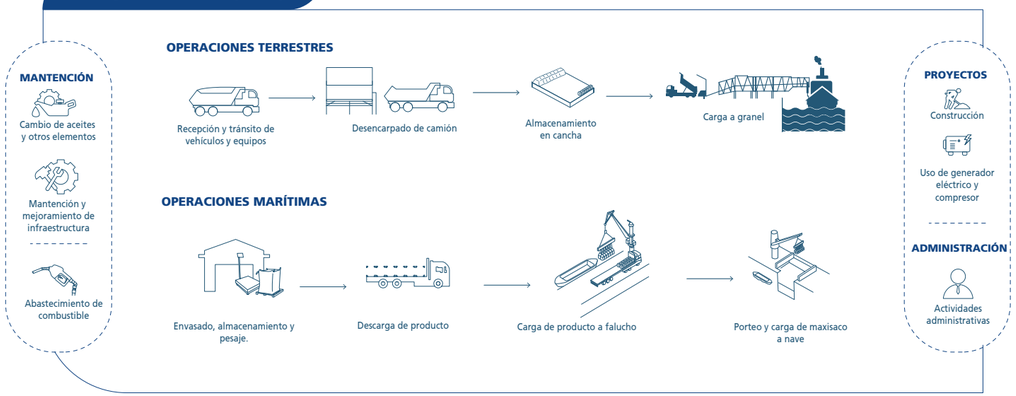
¿QUÉ ES UN IMPACTO AMBIENTAL?

Son los cambios negativos o positivos que se producen en el medio ambiente debido a un aspecto ambiental.

Ejemplos:

Alteración de la calidad del suelo, aire o agua
Alteración de la flora y fauna
Alteración de la salud de las personas
Impacto visual

DIAGRAMA DEL PUERTO



¿CUÁLES SON LOS ASPECTOS AMBIENTALES ASOCIADOS A NUESTRAS ACTIVIDADES EN MANTENCIÓN?

Cambio de aceites y otros elementos

Posible derrame de aceite y generación de residuos peligrosos

Mantención y mejoramiento de infraestructura

Generación de residuos peligrosos

¿CUÁLES SON NUESTROS POTENCIALES IMPACTOS?

Alteración calidad del suelo

Alteración calidad del aire

Alteración calidad del suelo

¿CÓMO PODEMOS CONTROLARLOS?

Si al realizar tus actividades ocurre un derrame, pon en acción el Subplan de Emergencias Operacional "Control derrame de Hidrocarburos" y da aviso al área de medio ambiente para que active el Plan de Manejo de Residuos Peligrosos.

Recuerda siempre llenar el Check List entrega RESPEL al encargado de la bodega.

Una vez realizado el cambio de los equipos, asegúrate de disponer los residuos en los sitios de almacenamiento autorizados para ello.

Recuerda siempre llenar el Check List entrega RESPEL al encargado de la bodega.

Opta por acciones que te permitan reducir la generación de residuos peligrosos, principio fundamental de la economía circular, y asegúrate de disponer los residuos peligrosos en los sitios de almacenamiento autorizados para ello.

Opta por alternativas al uso de tubos fluorescentes para reducir la generación de residuos peligrosos, principio fundamental de la economía circular.
Asegúrate de disponer los residuos peligrosos en los sitios de almacenamiento autorizados para ello.

EPP

Para evitarposibles daños a tu integridad física asegúrate de ocupar EPP entregados por SQM y firmar resgistro de entrega, el que es entregado al comenzar tus actividades en SQM.

Maintenance

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
General equipment maintenance and repair (electrical/ mechanical maintenance, instrumentation, equipment repair, welding work, general service maintenance, etc.)	Generation of hazardous waste (WD-40 aerosols, Beslux, etc.)	Change in air quality	Maintenance Supervisor			39. Maintenance certificates and boat checks [2]
		Change in soil quality	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding facility sanitary authorization unless it is included in the sanitary authorization of the main activity.	36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 RESPEL Sanitary Warehouse [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018) [2]
	Fuel gas emissions	Change in air quality	Maintenance Supervisor	Law No. 18.290 Transit Law	Art. 78.- Motor vehicles shall be equipped, adjusted or carbureted so that the engine does not emit polluting materials or gases at a higher rate than those allowed.	Truck technical inspection current [2]
		Harm to human health	Maintenance Supervisor	Law No. 18.290 Transit Law	Art. 78.- Motor vehicles shall be equipped, adjusted or carbureted so that the engine does not emit polluting materials or gases at a higher rate than those allowed.	
	Emission of metallic welding fumes	Harm to human health	Maintenance Supervisor	SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Article 53.- The employer shall provide its workers, free of charge and regardless of their role in the company, personal protection elements in accordance with the requirements, characteristics and types demanded by the risk to be covered and the theoretical and practical training necessary for their correct use, and shall also maintain them in perfect working order. The worker must wear said elements at all times while exposed to the risk.	*PPE, SDS and Barriers

Maintenance *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
General equipment maintenance and repair (electrical/ mechanical maintenance, instrumentation, equipment repair, welding work, general service maintenance, etc.)	Refrigeration / air conditioning system gases (leak)	Damage to the ozone layer	Maintenance Supervisor			* Equipment maintenance record * Refrigerant Certificate or SDS (environmentally friendly R4010 and R134A)
		Harm to human health	Maintenance Supervisor			
	Generation of non-hazardous waste (plastic, cans, others)	Change in soil quality	Maintenance Supervisor	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5. Waste generator obligations Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	2. Recycling centers installed in the port to dispose of segregated waste [2]
	Generation of non-hazardous waste (scrap)	Visual impact	Maintenance Supervisor	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5. Waste generator obligations Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	34. Salvage yard [1] 35. Resolution No. 3322/2020 approving the removal of scrap metal [2]
	Generation of non-hazardous waste (wood, transportation of equipment)	Natural resource consumption	Maintenance Supervisor	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5. Waste generator obligations Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	34. Salvage yard [1]

Maintenance *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
General equipment maintenance and repair (electrical/ mechanical maintenance, instrumentation, equipment repair, welding work, general service maintenance, etc.)	Generation of non-hazardous waste (machinery / equipment / damaged parts)	Visual impact	Maintenance Supervisor	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5. Waste generator obligations Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	34. Salvage yard [1]
	Generation of hazardous waste (batteries of electrical/electronic components)	Visual impact	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	35. Hazardous waste management plan Exempt Resolution 2432/ 2018)[2]
		Change in soil quality	Maintenance Supervisor			35. Hazardous waste management plan Exempt Resolution 2432/ 2018)[2]
	Generation of non-hazardous waste (electrical cables)	Visual impact	Maintenance Supervisor	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5. Waste generator obligations Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	34. Salvage yard [1]

Maintenance *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
General equipment maintenance and repair (electrical/ mechanical maintenance, instrumentation, equipment repair, welding work, general service maintenance, etc.)	Generation of non-hazardous waste (particulate matter from equipment cleaning)	Change in soil quality	Maintenance Supervisor	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5. Waste generator obligations Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	* Pickup and shipment to yard 10
	Gas consumption (vehicle transportation)	Natural resource consumption	Maintenance Supervisor			* Consumption Measurement and Tracking
	Fire threat	Change in soil and air quality	Maintenance Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Sanitary and Environmental Conditions in Workplaces.	1. Fire Emergency Sub Plan
	Lubricating oil/petroleum oil spill	Change in soil quality	Maintenance Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	SD 43 Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Sanitary and Environmental Conditions in Workplaces. SD 148 Art. 1 - This regulation establishes the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject.	* Spill Emergency Sub Plan_ rev0 [2] 36. Hazardous Waste Storage Site [1]

Maintenance *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
General equipment maintenance and repair (electrical/ mechanical maintenance, instrumentation, equipment repair, welding work, general service maintenance, etc.)	Materials and supplies (supplies)	Natural resource consumption	Maintenance Supervisor			*Hazardous waste management plan
	Electricity consumption	Natural resource consumption	Maintenance Supervisor	DS 43 Establishing an Emission Standard for the Regulation of Light Pollution		* LED lights [1]
	Generation of non-hazardous waste (used belts/rubbers/hydraulic hoses)	Visual impact	Maintenance Supervisor	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5. Waste generator obligations Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	34. Salvage yard [1]

Maintenance *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Battery replacement	Generation of hazardous waste (batteries from unused vehicles)	Change in soil quality	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 sanitary warehouse RESPEL [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018) [2]
		Harm to human health	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	35. Hazardous waste management plan Exempt Resolution 2432/ 2018)[2]
		Visual impact	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	35. Hazardous waste management plan Exempt Resolution 2432/ 2018)[2]

Maintenance *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Change of oils and other elements (Yale equipment, front end loader, others)	Generation of hazardous waste (antifreeze liquids / refrigerants)	Change in soil quality	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	
	Generation of hazardous waste (antifreeze liquids / refrigerants)	Harm to human health	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 sanitary warehouse RESPEL [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018)[2]
	Generation of hazardous waste (water from antifreeze liquid filters)	Change in soil quality	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 sanitary warehouse RESPEL [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018)[2]

Maintenance *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Change of oils and other elements (Yale equipment, front end loader, others)	Generation of hazardous waste (degreasing liquids / biodegradable detergents)	Change in soil quality	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 sanitary warehouse RESPEL [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018)[2]
		Harm to human health	Maintenance Supervisor			Respel
	Oil/lubricant/grease spills	Change in soil quality	Maintenance Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	SD 43 Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Sanitary and Environmental Conditions in Workplaces. SD 148 Art. 1 - This regulation establishes the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject.	36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 sanitary warehouse RESPEL [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018)[2] 6. Spill Emergency Sub Plan_rev0 [2] 38. RESPEL warehouse delivery check list [2] 33. SQM Aprende talks on hazardous waste management [4]

Maintenance *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Change of oils and other elements (Yale equipment, front end loader, others)	Fire threat	Change in soil and air quality	Maintenance Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Sanitary and Environmental Conditions in Workplaces.	1. Fire Emergency Sub Plan
	Materials consumption (oils, lubricants, greases)	Natural resource consumption	Maintenance Supervisor	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces		* Chemical substances management plan * Environmental tender guidelines
	Generation of hazardous waste (various thinners, turpentine and paints)	Change in soil quality	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 sanitary warehouse RESPEL [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018)[2]
	Generation of hazardous waste (various thinners, turpentine and paints)	Harm to human health	Maintenance Supervisor			

Maintenance *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Change of oils and other elements (Yale equipment, front end loader, others)	Adhesives (silicone, liquid steel, contact cement)	Harm to human health	Maintenance Supervisor		SD 148 Approving Sanitary Regulations on Hazardous Waste Management. SD 594/2000 Regulations on basic health and environmental conditions in workplaces NCh 2245/2015 Chemical substances - Safety data sheets	*PPE, SDS
	Generation of hazardous waste (used oil or hydrocarbon filters)	Change in soil quality	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 sanitary warehouse RESPEL [1] 6. Spill Emergency Sub Plan_rev0 [2] 33. SQM Aprende talks on hazardous waste management [4]
		Harm to human health	Maintenance Supervisor			
	Generation of hazardous waste (used air filters)	Change in soil quality	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 sanitary warehouse RESPEL [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018)[2]
		Harm to human health	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.		

Maintenance *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Change of oils and other elements (Yale equipment, front end loader, others)	Generation of hazardous waste (used or contaminated grease)	Change in soil quality	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 sanitary warehouse RESPEL [1] 6. Spill Emergency Sub Plan_rev0 [2] 33. SQM Aprende talks on hazardous waste management [4]
		Harm to human health	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.		
	Generation of hazardous waste (cans / aerosol cans or WD 40-type contact cleaner)	Change in soil quality	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 sanitary warehouse RESPEL [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018)[2]
			Harm to human health	Maintenance Supervisor		

Maintenance *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Change of oils and other elements (Yale equipment, front end loader, others)	Generation of hazardous waste (contaminated cloths)	Change in soil quality	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 sanitary warehouse RESPEL [1] 6. Spill Emergency Sub Plan_rev0 [2] 33. SQM Aprende talks on hazardous waste management [4]
	Generation of hazardous waste (contaminated cloths)	Harm to human health	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	
	Generation of hazardous waste (contaminated used clothing and PPE)	Change in soil quality	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 sanitary warehouse RESPEL [1] 6. Spill Emergency Sub Plan_rev0 [2] 33. SQM Aprende talks on hazardous waste management [4]
		Harm to human health	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.		

Maintenance *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Change of oils and other elements (Yale equipment, front end loader, others)	Generation of hazardous waste (metallic or plastic drums / containers with residues from oil, grease, additives, etc.)	Change in soil quality	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	
	Generation of hazardous waste (metallic or plastic drums / containers with residues from oil, grease, additives, etc.)	Harm to human health	Maintenance Supervisor			36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 sanitary warehouse RESPEL [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018) [2] 6. Spill Emergency Sub Plan_rev0 [2] 38. RESPEL warehouse delivery check list [2] 33. SQM Aprende talks on hazardous waste management [4]

Maintenance *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Infrastructure maintenance and improvement	Generation of hazardous waste (latex, oil, enamel and industrial paints)	Change in soil and/or sea quality	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	35. Hazardous waste management plan Exempt Resolution 2432/ 2018)[2]
	Generation of hazardous waste (latex, oil, enamel and industrial paints)	Change in soil quality (paint and other spills)	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 RESPEL Sanitary Warehouse [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018) [2] 6. Spill Emergency Sub Plan_rev0 [2] 38. RESPEL warehouse delivery check list [2] 33. SQM Aprende talks on hazardous waste management [4]
		Change in soil and air quality (fire threat)	Maintenance Supervisor			* Fire Emergency Sub Plan [2]
		Harm to human health	Maintenance Supervisor			

Maintenance *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
	Anti-corrosive, scale preventing and descaling agents	Harm to human health	Maintenance Supervisor			*PPE, SDS
Infrastructure maintenance and improvement	Generation of non-hazardous waste (construction debris, etc.)	Visual impact	Maintenance Supervisor	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5. Waste generator obligations Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	34. Salvage yard [1] 35. Resolution No. 3322/2020 approving the removal of scrap metal [2]
	Generation of non-hazardous waste (scrap)	Visual impact	Maintenance Supervisor	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5. Waste generator obligations Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	34. Salvage yard [1] 35. Resolution No. 3322/2020 approving the removal of scrap metal [2]

Maintenance *(continued)*

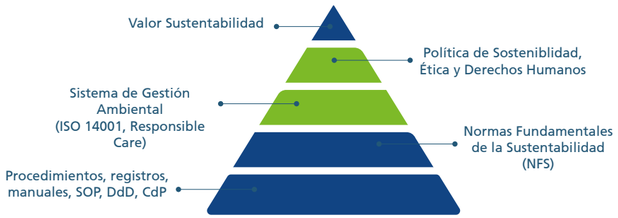
SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Infrastructure maintenance and improvement	Generation of hazardous waste (fluorescent tubes / lamps / bulbs / halogens / light bulbs, etc)	Change in soil quality	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	
		Harm to human health	Maintenance Supervisor	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.		36. Hazardous Waste Storage Site [1] 37. Resolution No. 1203 sanitary warehouse RESPEL [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018)[2] 38. RESPEL warehouse delivery check list [2]

Projects

¿CUÁL ES NUESTRA ESTRUCTURA DE SUSTENTABILIDAD?

Esta pirámide muestra los elementos que componen nuestra estrategia de sustentabilidad.

La necesidad de identificar los aspectos ambientales y sus potenciales impactos se encuentran en nuestra política ambiental y se materializa a través de nuestro SGA.



¿QUÉ ES UN ASPECTO AMBIENTAL?

Son elementos de las actividades, productos o servicios de una organización que interactúan o pueden interactuar con el medio ambiente.

Ejemplos:

Emisión de gases de combustión
Derrame de gasolina
Emisión de material particulado
Generación de residuos

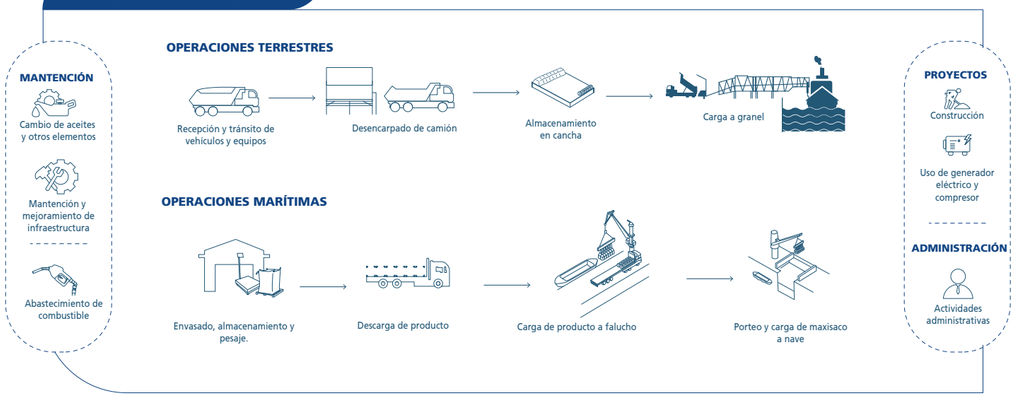
¿QUÉ ES UN IMPACTO AMBIENTAL?

Son los cambios negativos o positivos que se producen en el medio ambiente debido a un aspecto ambiental.

Ejemplos:

Alteración de la calidad del suelo, aire o agua
Alteración de la flora y fauna
Alteración de la salud de las personas
Impacto visual

DIAGRAMA DEL PUERTO



¿CUÁLES SON LOS ASPECTOS AMBIENTALES ASOCIADOS A NUESTRAS ACTIVIDADES EN PROYECTOS?

Construcción

Emisión de material particulado durante construcción, posibles derrames de aceite y generación de residuos industriales no peligrosos

Uso de generador eléctrico y compresor

Posible derrame de petróleo y emisión de gases de combustión

¿CUÁLES SON NUESTROS POTENCIALES IMPACTOS?

- Alteración a la salud de las personas
- Alteración de la flora y fauna
- Alteración calidad del aire
- Impacto visual
- Alteración calidad del agua
- Alteración de la flora y fauna
- Alteración calidad del aire

¿CÓMO PODEMOS CONTROLARLOS?

Asegúrate de realizar una correcta humectación de zona de trabajo y de dejar evidencia de esto en registro de humectación, así evitas posibles efermedades respiratorias.

Para minimizar el daño a la flora y fauna asegúrate de que las empresas contratistas manejen los residuos industriales no peligrosos de acuerdo a nuestros estándares corporativos y reducir la generación de desechos.

Cuando realices actividades cerca del mar, toma todas las precauciones para evitar la caída o derrame de cualquier sustancia que pueda generar una alteración de su calidad, en caso de derrame avisa a Prevención de riesgos y medio ambiente para activar el Sub Plan de Emergencias de Derrame al Mar. Ayúdanos a difundir los compromisos ambientales derivados de la ISO 14001 a nuestros contratistas.

En caso de que ocurra un derrame al mar en las actividades realizadas por empresas contratistas, asegúrate de que la gestión de los residuos peligrosos sea según procedimientos de SQM.
Se un agente de cambio y difunde siempre que puedas los compromisos de SQM con el medio ambiente relacionados con la gestión de residuos peligrosos.

Para minimizar la emisión de gases de combustión asegúrate que el genrador tenga su revisión técnica y mantenciones al día

EPP

Para evitarposibles daños a tu integridad física asegúrate de ocupar EPP entregados por SQM y firmar resgistro de entrega, el que es entregado al comenzar tus actividades en SQM.

Projects

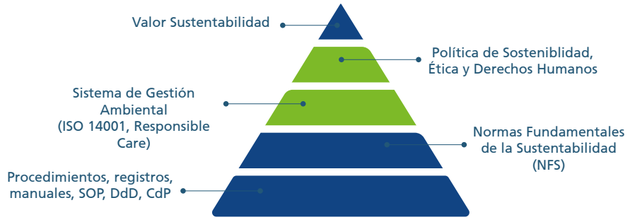
SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Engineering and tenders	Hazardous and non-hazardous industrial waste	Visual impact	Project Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management. SD 594/2000 Regulations on basic health and environmental conditions in workplaces	SD 148. Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. SD 594. Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	46. Include responsibility for proper waste management in the bidding documents (Hazardous and Non-Hazardous Waste) [2] 47. Corporate site installation standard [2] 48. Suspension protocol
		Change in soil quality	Project Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management. SD 594/2000 Regulations on basic health and environmental conditions in workplaces	SD 148. Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. SD 594. Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	49. Cage in projects to dispose of hazardous waste at point of origin [1] 46. Include responsibility for proper waste management in the bidding documents (Hazardous and Non-Hazardous Waste) [2] 47. Corporate site installation standard [2]

Administration

¿CUÁL ES NUESTRA ESTRUCTURA DE SUSTENTABILIDAD?

Esta pirámide muestra los elementos que componen nuestra estrategia de sustentabilidad.

La necesidad de identificar los aspectos ambientales y sus potenciales impactos se encuentran en nuestra política ambiental y se materializa a través de nuestro SGA.



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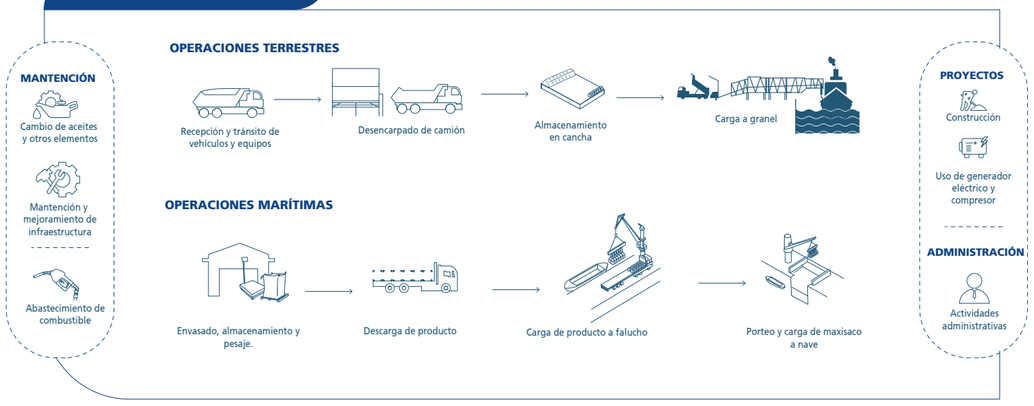
Alteración de la flora y fauna
Alteración de la salud de las personas
Impacto visual

DIAGRAMA DEL PUERTO



¿CUÁLES SON LOS ASPECTOS AMBIENTALES ASOCIADOS A NUESTRAS ACTIVIDADES ADMINISTRATIVAS?

Actividades Administrativas

Generación de residuos peligrosos (toner de impresora, tubos fluorescentes) y no peligrosos (artículos de oficina en desuso)

¿CUÁLES SON NUESTROS POTENCIALES IMPACTOS?

Alteración calidad del suelo

¿CÓMO PODEMOS CONTROLARLOS?

Opta por acciones que te permitan reducir la generación de residuos peligrosos, principio fundamental de la economía circular, y asegúrate de disponer los residuos peligrosos en los sitios de almacenamiento autorizados para ello.

En caso de que el cartucho tinta de la impresora se termine, asegúrate de llamar a la persona de empresa encargada para su retiro y correcta disposición final.

Administration

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Administrative activities (offices)	Natural or fresh water consumption	Natural resource consumption	Port Operations Manager			* Measurement and Monitoring of Consumption KPI (Environmental Objective)
	Wastewater generation	Change in water quality	Port Operations Manager			* Discharge to sewage system
	Generation of hazardous waste (Fluorescent tubes / lamps / bulbs / halogens / spotlights, etc.)	Change in soil quality	Port Operations Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management. SD 594/2000 Regulations on basic health and environmental conditions in workplaces	SD 148. Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. SD 594. Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	36. Hazardous Waste Storage Site [1] 37. RESPEL warehouse sanitary resolution No. 1203 [1] [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018) [2]
		Harm to human health	Port Operations Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management. SD 594/2000 Regulations on basic health and environmental conditions in workplaces	SD 148. Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. SD 594. Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	36. Hazardous Waste Storage Site [1] 37. RESPEL warehouse sanitary resolution No. 1203 [1] [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018) [2]

Administration *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Administrative activities (offices)	Fire threat	Change in air quality	Port Operations Manager	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Art. 21.- The place where the hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system, based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999 the Ministry of Health, Regulation Regulations on Basic Sanitary and Environmental Conditions in the Workplace.	60. Implementation of fire extinguishers according to applicable regulations [1] 1. Fire Emergency Sub Plan
	Consumption of refrigeration / air conditioning systems	Damage to the ozone layer	Port Operations Manager			* Equipment maintenance record * Refrigerant Certificate or SDS (biodegradable)
		Harm to human health	Port Operations Manager			
Construction	Particulate matter emissions / dust	Changes to flora, fauna and habitat	Project Manager			51. Dampening of work area [1] 52. Moisture log, plus photographic record [1]
		Change in air quality	Project Manager	SD 70 Establishes an Atmospheric Decontamination Plan for the City of Tocopilla and the surrounding area	Art. 3.- The emitting activities shall reduce their emissions according to the following Table No. 3: 6 tons/year PM	51. Dampening of work area [1] 52. Moisture log, plus photographic record [1]
	Metallic welding fumes	Change in air quality	Project Manager			*PPE * Screens

Administration *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Construction	Generation of non-hazardous waste (wood, moldings, iron pieces, concrete pieces, etc.)	Visual impact	Project Manager	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5.- Obligations of waste generators. Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	46. Include responsibility for proper waste management in the bidding documents (Hazardous and Non-Hazardous Waste) [2] 53. Talks on waste management [3] 50. TOP folder including certificates of final disposition [5]
		Change in soil quality	Project Manager			46. Include responsibility for proper waste management in the bidding documents (Hazardous and Non-Hazardous Waste) [2] 53. Talks on non-hazardous waste management [3] 50. TOP folder including final disposition certificates [5] * BATTERY COLLECTION
	Generation of non-hazardous waste (plastic, cans, others)	Visual impact	Project Manager	SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	. Recycling centers installed in the port to dispose of segregated waste [2] 3. Installation of household waste containers at contractor facilities.
		Natural resource consumption	Project Manager			

Administration *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Construction	Generation of hazardous waste (paint, latex, oil, anti-corrosives, etc. containers)	Change in soil quality	Project Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	49. Cage in projects to dispose of hazardous waste at point of origin [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018)[2] 54. Inspection of the proper collection and sorting of hazardous waste by ITO (Initial Check List) [5]
		Harm to human health	Project Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	49. Cage in projects to dispose of hazardous waste at point of origin [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018) [2] 54. Inspection of the proper collection and sorting of hazardous waste by ITO (Initial Check List) [5]

Administration *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Construction	Generation of non-hazardous waste (Metallic scrap including steel and iron)	Visual impact	Project Manager	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5.- Obligations of waste generators. Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	55. Resolution No. 3322/2020 approving the removal of scrap metal [2] Waste is stored in bins for final disposal
		Change in soil quality	Project Manager			55. Resolution No. 3322/2020 approving the removal of scrap metal [2] Waste is stored in bins for final disposal
	Generation of hazardous waste (PPE contaminated with oils, greases and others)	Change in soil quality	Project Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management. SD 594/2000 Regulations on basic health and environmental conditions in workplaces	SD 148. Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. SD 594. Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	

Administration *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Construction	Generation of hazardous waste (paint, latex, oil, anti-corrosives, etc. containers)	Change in water quality	Project Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	36. Hazardous Waste Storage Site [1] 37. RESPEL warehouse sanitary resolution No. 1203 [1] [1] 56. RESPEL handling procedures of the contractor in charge of project execution [2] 57. Training on "Hazardous Waste Management" and sorting [3] 54. Inspection of the proper collection and sorting of hazardous waste by ITO (Initial Check List) [5]
		Harm to human health	Project Manager			

Administration *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Construction	Generation of hazardous waste (oil, lubricants, greases)	Change in soil quality	Project Manager			
		Change in water quality	Project Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	36. Hazardous Waste Storage Site [1] 37. RESPEL warehouse sanitary resolution No. 1203 [1] [1] 56. RESPEL handling procedures of the contractor in charge of project execution [2] 57. Training on "Hazardous Waste Management" and sorting [3] 54. Inspection of the proper collection and sorting of hazardous waste by ITO (Initial Check List) [5]
		Harm to human health	Project Manager			

Administration *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Construction	Generation of hazardous waste (various thinners and turpentine)	Change in soil quality	Project Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management. SD 594/2000 Regulations on basic health and environmental conditions in workplaces	SD 148. Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. SD 594. Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	36. Hazardous Waste Storage Site [1] 37. RESPEL warehouse sanitary resolution No. 1203 [1] [1] 56. RESPEL handling procedures of the contractor in charge of project execution [2] 57. Training on "Hazardous Waste Management" and sorting [3] 54. Inspection of the proper collection and sorting of hazardous waste by ITO (Initial Check List) [5]
		Harm to human health	Project Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. Article 29 - Any site used to store hazardous waste shall have the corresponding sanitary authorization of installation unless it is included in the sanitary authorization of the main activity.	
	Electricity consumption	Natural resource consumption	Project Manager			*Certificate of global contract withdrawal oversight

Administration *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Construction	Wastewater generation (chemical baths)	Change in soil quality	Project Manager			
		Harm to human health	Project Manager			60. Chemical baths SOP [SGA-GE-PT006]
	Fuel consumption - gas (forklifts, trucks and others)	Natural resource consumption	Project Manager			* Measurement and Monitoring of Consumption KPI (Environmental Objective)
	Fuel gas emissions	Change in air quality	Project Manager			Current maintenance and technical inspection certificates
	Fire threat	Change in soil and air quality	Project Manager			1. Fire Emergency Sub Plan

Administration *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Construction	Lubricating oil/gas spills (forklifts, trucks and others)	Change in soil quality	Project Manager	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	SD 43 Art. 21.- The place where hazardous substances are stored must have a spill control system, which may consist of absorbent materials or containment trays, and have a manual fire extinguishing system, based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing and fire fighting potential of the stored products, and the type of fire extinguishers used, must be compatible with the products stored maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999 the Ministry of Health, Regulation Regulations on Basic Sanitary and Environmental Conditions in the Workplace. SD 148 Art. 1 - This regulation establishes the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject.	Spill Emergency Sub Plan_ rev0 [2] 36. Hazardous Waste Storage Site [1] 37. RESPEL warehouse sanitary resolution No. 1203 [1] [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018)[2]
Use of electric generator and compressor	Fuel consumption -gas	Natural resource consumption	Project Manager			* Equipment fuel log sheet.
	Lubricating oil/petroleum oil spill (forklifts, trucks and others)	Change in soil quality	Project Manager	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces SD 148 Approving Sanitary Regulations on Hazardous Waste Management.	SD 43 Art. 21.- The place where hazardous substances are stored must have a spill control system, which may consist of absorbent materials or containment trays, and have a manual fire extinguishing system, based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing and fire fighting potential of the stored products, and the type of fire extinguishers used, must be compatible with the products stored maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999 the Ministry of Health, Regulation Regulations on Basic Sanitary and Environmental Conditions in the Workplace. SD 148 Art. 1 - This regulation establishes the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject.	49. Cage in projects to dispose of hazardous waste at point of origin [1] 43. Spill Contingency Plan HC [2] 6. Spill Emergency Sub Plan_rev0 [2] 44. Simulation "Spill at Sea". [2] 58. AREA- DRON Inspection Protocol [5]

Administration *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Use of electric generator and compressor	Fire threat	Change in soil and air quality	Project Manager			1. Fire Emergency Sub Plan
	Noise generation	Acoustic changes	Project Manager	SD 38 "Noise"	Art. 10.-The levels generated by noise emitting sources shall comply with the maximum permissible corrected sound pressure levels corresponding to the area where the receiver is located.	
	Fuel gas emissions	Change in air quality	Project Manager			58. AREA- DRON Inspection Protocol [5] 59. Generator maintenance document [5]
		Harm to human health	Project Manager			
	Consumption of materials (office and other waste paper)	Natural resource consumption	Port Operations Manager			

Administration *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Use of electric generator and compressor	Generation of hazardous waste (printer cartridges or toner)	Change in soil quality	Port Operations Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management. SD 594/2000 Regulations on basic health and environmental conditions in workplaces	SD 148. Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. SD 594. Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	61. Final disposal certificate [5]
		Harm to human health	Port Operations Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management. SD 594/2000 Regulations on basic health and environmental conditions in workplaces	SD 148. Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. SD 594. Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	
		Visual impact	Port Operations Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management. SD 594/2000 Regulations on basic health and environmental conditions in workplaces	SD 148. Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. SD 594. Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	61. Final disposal certificate [5]
	Generation of non-hazardous waste (office supply waste)	Visual impact	Port Operations Manager	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5.- Obligations of waste generators. Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	2. Recycling centers installed in the port to dispose of segregated waste [2]

Administration *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Use of electric generator and compressor	Generation of hazardous waste (computer equipment decommissioned without batteries)	Visual impact	Port Operations Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management. SD 594/2000 Regulations on basic health and environmental conditions in workplaces	SD 148. Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. SD 594. Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	
		Change in soil quality	Port Operations Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management. SD 594/2000 Regulations on basic health and environmental conditions in workplaces	SD 148. Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. SD 594. Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	36. Hazardous Waste Storage Site [1] 37. RESPEL warehouse sanitary resolution No. 1203 [1] [1] 35. Hazardous waste management plan Exempt Resolution 2432/ 2018) [2]
	Generation of non-hazardous waste (domestic waste)	Change in soil quality	Port Operations Manager	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5.- Obligations of waste generators. Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	2. Recycling centers installed in the port to dispose of segregated waste [2]
		Visual impact	Port Operations Manager			2. Recycling centers installed in the port to dispose of segregated waste [2]

Administration *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Use of electric generator and compressor	Noise generation (perimeter noise)	Acoustic changes	Port Operations Manager	SD 38 "Noise"	Art. 10.-The levels generated by noise emitting sources shall comply with the maximum permissible corrected sound pressure levels corresponding to the area where the receiver is located.	*Perimeter noise study
	Electricity consumption	Natural resource consumption	Port Operations Manager			* Measurement and Monitoring of Consumption KPI (Environmental Objective)
Organization-wide processes	Material consumption (product packaging material)	Natural resource consumption	Port Operations Manager			*Environmental bidding conditions (ECOPURE biodegradable plastic supply opportunity)
	Changes resulting from the introduction or modification of new activities, as well as services or products	Potential impact on (soil, water, air) and depletion of natural resources, noise, among others	Port Operations Manager			* Prepare an Environmental Aspect Matrix for each project or activity (Temporary) * Updating of the Environmental Aspects Matrix (with ongoing changes) * Application of ORI with environmental variable (Currently being updated)
	Non-hazardous waste generation (final disposal of packaging material)	Change in soil quality	Port Operations Manager	Environment Ministry Law 20920/2016 SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Law 20920-Art. 5.- Obligations of waste generators. Every generator of waste shall deliver it to an authorized entity for treatment in accordance with current regulations unless it manages them on its own in accordance with the following article. SD 594-Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	* Recycling symbol by type of plastic (Packaging material) *Environmental bidding conditions (ECOPURE biodegradable plastic supply opportunity)

Administration *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Temporary storage of hazardous wastes (RESPEL)	Oil/lubricant/grease/other spills	Change in soil quality	Port Operations Manager	SD 148 Approving Sanitary Regulations on Hazardous Waste Management. SD 594/2000 Regulations on basic health and environmental conditions in workplaces	SD 148. Art. 1 - These regulations establish the minimum health and safety conditions to which the generation, possession, storage, transportation, treatment, reuse, recycling, final disposal and other forms of elimination of hazardous waste shall be subject. SD 594. Art. 3.- The company is obliged to maintain the health and environmental workplace conditions necessary to protect the life and health of the workers who work there, whether they are its direct employees or those of third party contractors who perform activities for it.	* Implementation of hazardous waste storage and handling * Training on hazardous waste management and SDS * Implementation of minor emergency equipment (spill kits, fire extinguishers, hoses)
	Fire threat	Change in air quality	Port Operations Manager	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Art. 21.- The place where the hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system, based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999 the Ministry of Health, Regulation Regulations on Basic Sanitary and Environmental Conditions in the Workplace.	Implementation of fire extinguishers according to applicable regulations [1] 1. Fire Emergency Sub Plan

Administration *(continued)*

SUB-ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	INDIVIDUAL/ ORGANIZATION RESPONSIBLE	APPLICABLE LEGISLATION	LEGAL REQUIREMENT	CONTROL MEASURES
Temporary storage of hazardous substances	Oil/lubricant/grease/other spills	Change in soil quality	Port Operations Manager	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Art. 21.- The place where the hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system, based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999 the Ministry of Health, Regulation Regulations on Basic Sanitary and Environmental Conditions in the Workplace.	* Implementation of hazardous substances storage and handling * Substance Handling Training and SDS * Implementation of minor emergency equipment (spill kits, fire extinguishers, hoses)
	Fire threat	Change in air quality	Port Operations Manager	SD 43/2016 SUSPEL storage regulations SD 594/2000 Regulations on basic health and environmental conditions in workplaces	Art. 21.- The place where hazardous substances are stored shall have a spill control system, which may consist of absorbent materials or containment trays, and shall have a manual fire extinguishing system based on extinguishers, compatible with the stored products, in which the quantities, distribution, extinguishing potential and maintenance, among other aspects, shall be in accordance with the provisions of Decree No. 594 of 1999, of the Ministry of Health, Regulation on Basic Sanitary and Environmental Conditions in Workplaces.	60. Implementation of fire extinguishers according to applicable regulations [1] 1. Fire Emergency Sub Plan
Port Housekeeping (organization-wide process)	Generation of non-hazardous waste (in pedestrian traffic areas, yard slopes and other port areas)	Change in soil quality	Port Operations Manager			2) Housekeeping Oversight Standard [SGA-GE-PT0007]
		Visual impact	Port Operations Manager			

1.2.3 Performance Indicators

Meeting Environmental Objectives

We establish the objectives and goals associated with the Port of Tocopilla based on the corporate guidelines set out in our Sustainability, Ethics and Human Rights Policy. These objectives refer to water management, climate change (mitigation), particulate matter emissions and waste. The goals are identified annually in collaboration with senior management. The indicators are monitored quarterly based on the goals established in the Sustainability Strategic Plan. This monitoring is reviewed at the Sustainability Committee meetings with senior management of the Port of Tocopilla.

ITEM	OBJECTIVES		GOALS	
	SUSTAINABILITY POLICY PILLAR	DEFINITION	DEFINITION	INDICATOR
1	Emissions and waste approach	Limiting PM10 particulate matter emissions	Maintaining PM10 particulate matter emissions from bulk activity below 4.5 tons/year	PM particulate matter emissions (YTD TON)
2	Emissions and waste approach	Reduce waste that goes to landfills	Reduce waste by 5% with respect to 2021 (tarps, sacks and pallets)	KPI: (Tons generated in 2022/ Tons generated in 2021) *100
			Recycle 100% of port waste (tarps and maxibags)	KPI: (Tons Recycled/ Tons of Output)*100
			Recycle 100% of household waste (paper-cardboard, plastic bottles and cans)	KPI: (Tons Recycled/ Tons of Output)*100
3	Water resource management approach	Reduce water consumption	Reduce per capita water consumption by 5% over 2021	Consumption per person at port KPI: Liters/person
4	Climate change approach	Decrease greenhouse gas (GHG) emissions	Decrease GHG emissions by 2% over 2021	Eco-efficiency index in CO2 emissions (Ton CO2/Ton shipped).

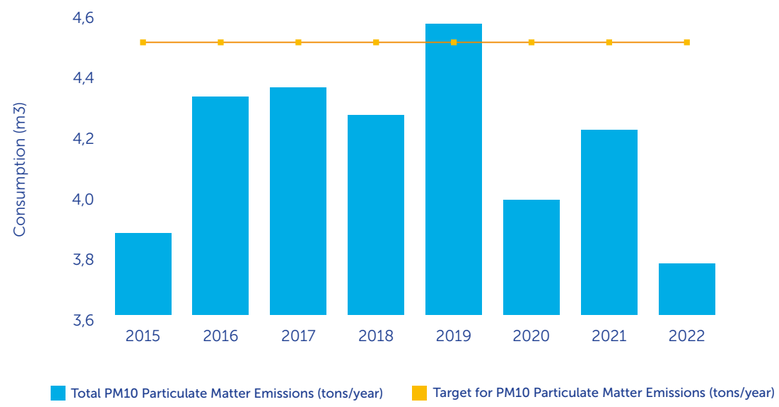
1. Environmental objective: Limit PM10 particulate matter emissions

Non-hazardous waste and emissions approach

We are aware that one of the main environmental aspects that can generate a potential impact on our environment in the Port of Tocopilla is related to the particulate matter emissions that our activity generates. The port's environmental management seeks to minimize the emissions of particulate matter with multiple control measures, thus reducing the risk to human health, the environment and the community.

The Port of Tocopilla closed 2022 with 3.77 tons/year, making it the year with the lowest emissions of PM10 particulate matter and meeting the target of 4.5 tons/year.

Historical PM10 Particulate Matter Emissions



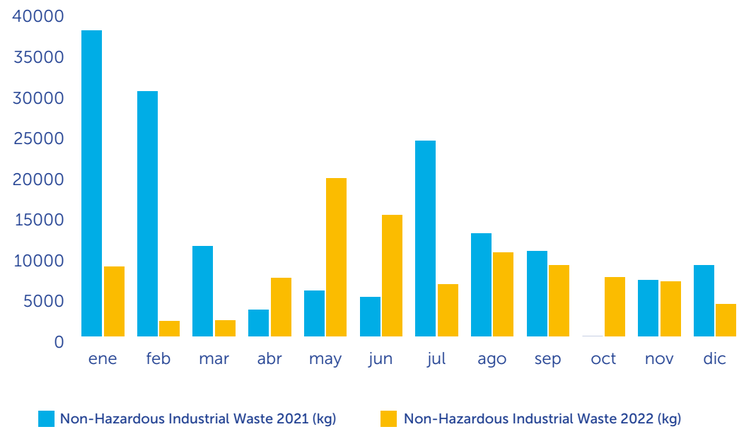
2. Environmental objective: Decrease the amount of waste that goes to landfills

Non-hazardous waste and emissions approach

At the Port of Tocopilla, we are aware that one way of impacting our environment is related to the waste that our activity generates. Therefore, we seek to address said waste in accordance with national legislation, the environmental commitments that have been made and our sustainability policy. The management of port waste is designed to minimize it as much as possible, recovering it and seeking out new uses or eliminating it at the point of origin if possible, thus reducing the risk to human health, the environment and communities.

Puerto Tocopilla closed 2022 with a 37% reduction in non-hazardous waste compared to 2021.

Generation of Non-Hazardous Waste at the Port of Tocopilla 2021 vs 2022



3. Environmental objective: Reduce water consumption

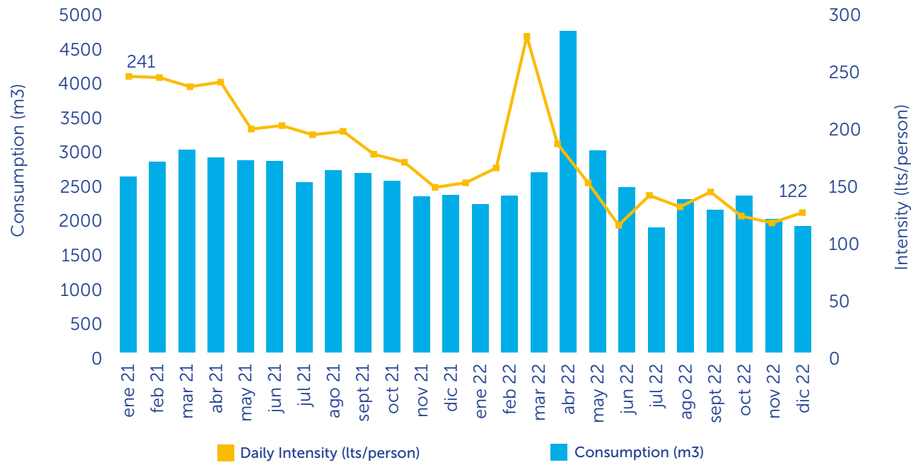
Water management approach

Using water responsibly is an important issue for the Port of Tocopilla. We ensure that we use water efficiently on an ongoing basis, managing its use and optimizing our processes. Our Sustainability, Ethics and Human Rights Policy highlights the importance of reducing water consumption. A water management monitoring indicator was created as part of the commitments made through said policy.

During 2022, the water management indicator for the Port of Tocopilla was defined in terms of liters per person, as this is one of the main uses.

The Port of Tocopilla met its goal at the end of 2022 and reduced its intensity by 27% over 2021.

Water Consumption 2021 vs 2022



2021 Results

- Intensity per day (Liters/person): 206
- Total consumption (m3): 31,508
- Avg Cant. Employees: 428

2022 Results

- Intensity per day (Liters/person): 149
- Total consumption (m3): 29,264
- Avg No. of Employees: 541

4. Environmental objective: Reduce water consumption

Climate change approach

We are aware that the products that we ship out of the Port of Tocopilla are used in industries that are fundamental to human development and people's wellbeing. Therefore, we defined very ambitious goals in terms of greenhouse gas (GHG) emissions reduction. These goals are reflected in our Sustainability Strategic Plan and are focused on two areas:

a. Mitigation is conducted through the quantification of our GHG emissions based on international methodologies that are verified periodically for internal port management.

b. Adaptation of our operations, production and logistics processes according to the specific needs and risks of each project, incorporating climate change.

GHG Emissions (tons CO2eq) 2022

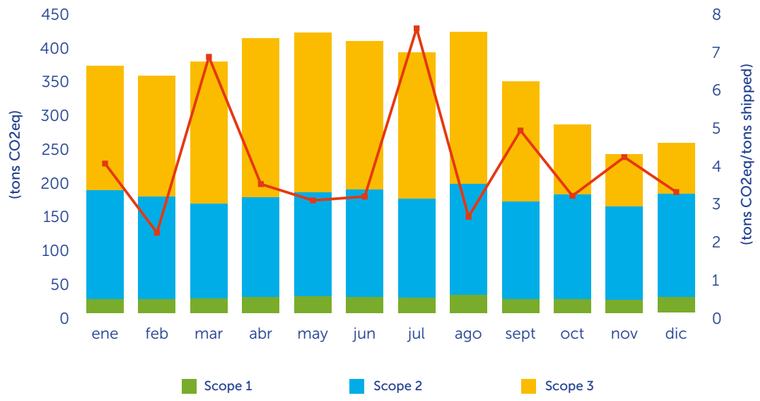
Results 2022

Intensity: 3.46 tons CO2eq/tons shipped

Scope 1: 265 (tCO2eq)

Scope 2: 1,814 (tCO2eq)

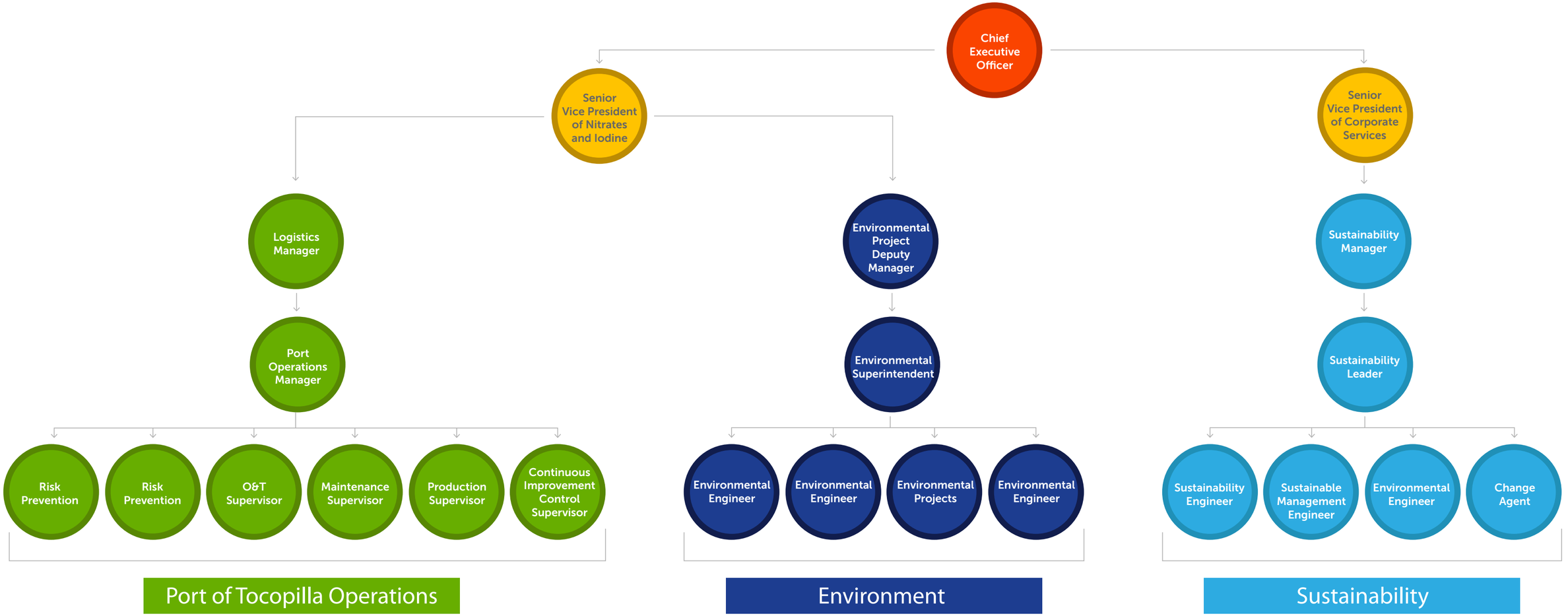
Scope 3: 2,141 (tCO2eq)



1.3 Responsibilities and Resources

1.3.1 Port of Tocopilla Environmental Management System Organizational Chart

Below is a schematic representation of the organizational structure of the Port of Tocopilla and SQM's support management.



1.3.2 Roles and Responsibilities

The roles and responsibilities of Port of Tocopilla employees and SQM support management related to the ISO 14001:2015 Environmental Management System are shown below.

OPERATION	NAME OR ROLE	DEPARTMENT
Logistics Department	Logistics Manager	Operations
Port Operations Department	Port Operations Manager	Operations
Maritime and Land Operations	Head of the Maritime and Land Operations	Operations
Packaging Production	Head of Production and Packaging	Operations
Port Maintenance	Head of Maintenance	Operations
Operations Control and Continuous Improvement	Head of Operations Control and Continuous Improvement	Operations
APR Port Operation	Access Risk Prevention	Safety
Environment Project Unit	Deputy Environment Project Manager	Environment
Nitrate-Iodine Environment Unit	Environment Superintendent	Environment
Port Environment	Environmental Engineer	Environment
Sustainability Department	Sustainability Manager	Sustainability
Sustainability	Sustainability Leader	Sustainability
Sustainability	Sustainability Engineer	Sustainability

1.3.3 Resource Allocation

The following table describes the budget of the Environment Department for domestic and industrial waste, costs of waste sent to landfills (non-hazardous waste yard), internal and external transfers, costs of transporting waste for recycling, final destination of hazardous waste, replacement of screens as mitigation measures, purchase and installation of particulate matter sensors to comply with the Tocopilla Atmospheric Decontamination Plan (PDA).

ENVIRONMENTAL MANAGEMENT	2021 BUDGET IN USD
BUDGET	COSTS
Domestic waste	121,195
Industrial waste	41,031
Cost of waste disposal	41,859
Internal waste transfer	32,443
Hoppers	7,897
Costs of transporting waste for recycling	31,769
Cost of transporting hazardous waste to final destination	20,950
Repair and replacement of screens as mitigation measures	21,828
Purchase and installation of sensors to measure PM	4,951
TOTAL	**323,923**

The following table describes the budget of the project area allocated to the different opportunities for improvement and environmental controls at the Port of Tocopilla.

These improvements seek to reduce the environmental impact of particulate matter emissions and the risk of product spillage into the sea, among others.

ENVIRONMENTAL MANAGEMENT	2021 BUDGET IN USD
BUDGET	COSTS
Yard 6 sheds	251,937
Yard 6-3-4 parapets	67,486
Overhaul of lighters	7,603
Port electrical upgrades part 2 (2019)	291,601
Complete closure of shipping system and mechanized arm	77,362
Overhaul of mechanized arm (2019)	73,035
Silo improvement	32,150
Purchase of critical spare part	193,000
Complete locking system and mechanized arm (2020)	125,253
Installation of stones in yard 6 north	744,273
New emergency service area	10,000
Port mechanized plant automation	30,000
Improvements to mechanized arm (2021)	150,000
1st stage of mechanized arm cleaning	75,000
Cost management office	40,000
Silo 1 and 2 bases	60,000
Materials for spill control Tocopilla	40,000
TOTAL	**2,268,700**

1.4 Compliance Review

1.4.1 Compliance Review of Legal and Policy Requirements

SGA Certification ISO 14001:2015

The Port of Tocopilla is committed to carrying out its work in a responsible manner and with high environmental standards. Therefore, environmental management is a strategy derived from SQM's sustainability plan, an objective that is applied in processes, business strategies and decisions at all levels of the organization. To achieve this purpose, the port has an Environmental Management System certified under the requirements of ISO 14001: 2015, in addition to obtaining Responsible Care certification, both of which are verified annually, thus establishing systematic and proactive management throughout the organization.

We are improving our environmental management system in order to better monitor our goals, objectives and compliance as part of our continuous improvement process.

The Port of Tocopilla has the important ISO14001:2015 certification, which applies to its areas of operations. It was granted by the certifying company TÜV Rheinland.

As part of the internal and external auditing processes carried out during 2022, observations and findings were identified and subsequently action and follow-up plans were prepared. The main conclusions of the 2022 follow-up process are presented below:

Management system performance was reviewed by a team of appropriately qualified auditors. Work sequences were evaluated in this process to determine whether they comply with the requirements of the standard and with the descriptions in the management system documentation. The objectives as described in the audit plan, the characteristics of the company's activities, applicable legal and regulatory requirements, and other key documents have been taken into account. This was done through random testing, such as interviews and inspections of the corresponding documents.

There were no material changes to the management system or management system documentation since the last 2021 audit. The information on which the audit is based (e.g. number of employees, scope, locations) reflects the company's situation.

The description of the scope in the certificate appropriately reflects the scope of the Management System.

- Internal Audit, August 2022
- First External Audit Follow-up, November 2022

Responsible Care Certification

RESPONSIBLE CARE®
NUESTRO COMPROMISO CON LA SUSTENTABILIDAD

CERTIFICADO DE VERIFICACIÓN

OTORGADO A

SERVICIOS INTEGRALES DE TRANSITOS Y TRANSFERENCIAS S.A.
TERMINAL MARÍTIMO TOCOPILLA

La Asociación Gremial de Industriales Químicos de Chile
ASIQUIM A.G
ha verificado que la instalación indicada ha obtenido:

NIVEL 2: "Cumple los requisitos del Sistema de Gestión de Responsible Care"

Fecha de verificación: 2, 3, 4 y 5 de Agosto de 2021

Este certificado tiene una validez de tres años
desde la fecha de verificación antes indicada

Francisco Horn
Presidente de la Comisión
Responsible Care

Werner Watznauer
Presidente ASIQUIM A.G

ASIQUIM

The Port of Tocopilla adheres to the voluntary commitment of the Responsible Care Management System, which focuses on improving production processes and the handling, distribution and disposal of its products in order to achieve the best health and safety conditions for its workers and the most adequate protection of the environment and its surroundings.

The Responsible Care Management System allows us to share industry best practices in order to improve performance, build trust with other key stakeholders and promote a culture of continuous improvement in environmental, health and safety issues.

The Responsible Care System verification process begins with an invitation to complete the self-assessment questionnaire and visits to the facilities. The result obtained from the ASIQUIM system verification process was that the port complies with the six basic principles that govern the initiative and certification was obtained during the 2021 period, which will be valid for 3 years in order to initiate the re-verification stage. Through this certification, the Port of Tocopilla joined a select group of chemical companies that are recognized nationally and internationally.

- Verification, July 2022
- External Auditing Follow-up, 2024

2022 Opportunities for Improvement

During 2022, several internal and external audits were conducted at the Port of Tocopilla and opportunities for improvement were identified. Some of the improvements implemented are described below:

INTERNAL AUDITING IMPROVEMENT OPPORTUNITIES	RESULTS
[OM-03 Ground Operations] As part of the operational controls of the area, a drone is used daily by RAMMA to check the storage yards and verify the correct operation of the tarps used to cover products in the storage yards. As an opportunity for improvement, the standardization of the use of drones for operational control is proposed.	Closed, daily performance is noted
[OM-04 Ground Operations] It was observed that part of curtain No. 1 was damaged during a visit to the pan feeder sector. The area must ensure the correct condition of these curtains to avoid non-compliance with the commitments established in the Atmospheric Decontamination Plan for the city of Tocopilla and its surrounding area.	Closed, daily performance is noted
[OM-05 Packaging] Similar to waste (cans, cartons and plastic bottles), it is recommended that the area set aside for industrial plastics include an identified and delimited zone using the company's Lean M1 tools as a reference.	Closed, daily performance is noted
[OM-06 Projects] During the visit, interviews revealed that currently there is no quantification of emissions based on fuel consumption of generators and equipment used in ongoing projects.	Closed, daily performance is noted

During meetings with the senior management of the Port of Tocopilla, documents were reviewed and the Internal and External Issues, Context, Interested Parties, Risks and Opportunities, and Environmental Aspect and Impact matrices were updated.

	VARIABLE	STATUS / CHANGE
1	External and internal matters are relevant to the EMS.	The document is revised and remains current with the external and internal reality of the port organization.
2	Stakeholder needs and expectations, including legal and other requirements.	No changes in needs and expectations, or in legal and other requirements.
3	Significant Environmental Aspects	An external certification audit was conducted in December 2022, with a focus on reviewing the Aspects and Impacts of the EMS, and these have been adequately identified.
4	Risks and opportunities and effectiveness of actions taken	The risks and opportunities identified in SGA-GE-R008 are still in force.

Information on the Organization's Environmental Performance

Our Integrated Process Management Policy is focused on sustainable development in harmony with our environment, business ethics and respect for and promotion of human rights in accordance with current national and international standards. The company establishes commitments aligned with the quality, occupational health and safety, environment and energy management system.

Our commitments include a strategy of continuity and opportunities for improvement that allow us to ensure that our operations are sustainable based on the management system. With respect to this commitment, the results of the external audit conducted during 2021 are presented. Furthermore, meeting current legal requirements and other requirements applicable to our activities that we have agreed to voluntarily and establishing the review of indicators through monitoring and measurement in order to ensure compliance with the organization's aligned strategic objectives.

RESULT OF THE EXTERNAL AUDIT 2021

		NUMBER OF FINDINGS	
AUDIT DATE	FACILITY	MINOR NONCONFORMITY	MAJOR NONCONFORMITY
17/ Dec/ 2022	Port of Tocopilla	3	1
	Total	**3**	**1**

COMPLIANCE WITH LEGAL AND OTHER REQUIREMENTS

VARIABLE	NUMBER OF FINDINGS
Number of Environmental Legal Requirements	No. of Legal Bodies Identified: 116 No. of Legal Bodies Evaluated: 116 No. of Legal Bodies in Compliance: 71 No. of Legal Bodies in Non-Compliance: 1 No. of Legal Bodies Not Applicable: 44
Legal Compliance Assessments	SQM's Legal Vice-President performs a Compliance Verification.

MONITORING AND MEASUREMENT RESULT

AREA	INDICATOR				RESULT
	NAME	FORMULA	NUMERATOR VALUE	DENOMINATOR VALUE	
EMS Base	Closed Nonconformity Reports (NCR)	Closed NCRs/ Total NCRs	4	4	100% NCRs Closed
	Auditing compliance	Audits carried out *100/ Audits scheduled	-	3	Scheduled
EMS Monitoring Activities	Compliance with scheduled EMS activities	Audits carried out *100/ Audits scheduled	69	75	92% compliance
Minutes Activities	Compliance of Port Leaders' Activities	Audits carried out *100/ Audits scheduled	48	56	85.71% compliance

Opportunities for Improvement at the Port of Tocopilla

During the 2022 period, several internal and external audits were carried out, as well as a meeting of leaders of the Port of Tocopilla, which resulted in opportunities for improvement that were carried out during the same period.

IMPROVEMENTS MADE DURING 2022	RESULTS
Generate a calendar for reviewing the fuel consumption of contractors that have the greatest impact	Closed
Request a report tracking fuel consumption by machine or equipment from contractors	Closed
Evaluate the installation of chip keys in contractors' fixed equipment in the port	Closed
Installation of water meters to identify consumption	Closed
Identification of opportunities for improvement in port pallet management	Closed
Circularity Baseline Document Resp CPA Team (Clean Production Agreement) Map identifying circularity gaps and opportunities based on the results of the baseline, generating a list of priorities.	In process
Presenting online monitoring of particulate matter	Closed
Identification of climate change issues	Pending
EcoPorts SDM self-assessment	Closed

Conclusions of the Leadership Review

- We fully met the EMS activities commitments during Q1 2022.
- Monitoring and action plans for the established environmental objectives are being carried out.
- The system meets the objectives set out in the implementation of the EMS.
- It is important for all workers to commit to the proper execution of the activities committed to in the EMS in order to make the environmental management system effective.

At the meeting held with Port of Tocopilla area leaders, commitments were discussed and established that will be carried out during 2022. The commitments are outlined below:

Commitments

- Schedule an internal audit for Tuesday -Thursday for the month of July 2022.
- Closing of opportunities for improvement identified in the review conducted by the previous leadership.
- Evaluation of the effectiveness of the action plans proposed in the identification of non-conformities.
- Evaluate medium- to long-term opportunities for the inclusion of photovoltaic and tidal energy.
- Environment will send information regarding the particulate matter target.
- Port Operations will send a January-March update on the 2022 residues.
- Sustainability will coordinate a maturity assessment to analyze the integration of the EMS in all employees.

1.5 Environmental Report

1.5.1 Environmental Report

The Port of Tocopilla Environmental Report outlines the **comprehensive and essential commitment that we have made to the sustainability of our business** and that we have projected for the coming years in our Sustainability Plan in regard to various environmental goals and commitments.

EMS leaders determine the external and internal factors that are relevant to the commitment and strategic plan in order to achieve the objectives established in the organization. The Context, Interested Parties, Risks and Opportunities Matrix (M1-SG/R8) is a document that allows for the identification and oversight of risks and opportunities related to the following points:

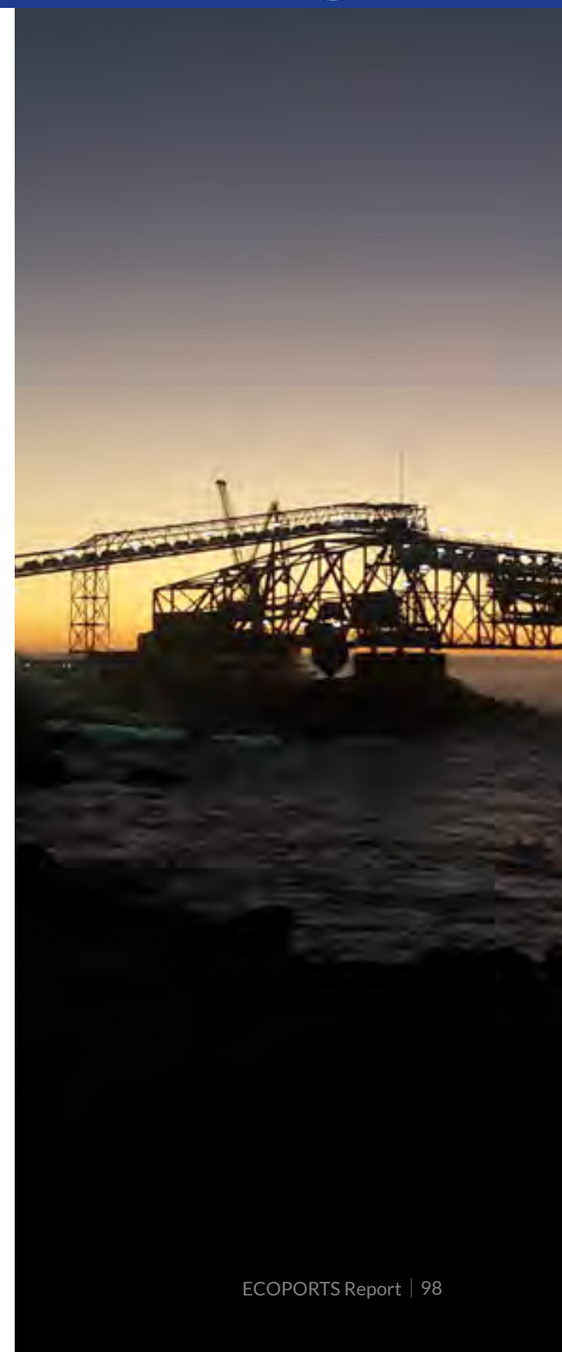
- Environmental Aspects
- Legal and Other Requirements.
- Environmental Management System Manual (SGA-GE-M001 Version 02)
- Risks are evaluated through criteria established by the probability and consequence matrix and the improvement opportunities are selected by management for subsequent execution.

The port's environmental report contains the following information:

- **Chapter 1.0-** Description of the Nature and Size of the Port of Tocopilla Activities Additionally, the relevant interested parties related to the port environment and their needs, expectations and commitment made to Port of Tocopilla environmental activities are identified.
- **Chapter 1.1-** Environmental Policy Statement
- **Chapter 1.2-** Overview of the Main Environmental Aspects and Impacts and Performance of the Port of Tocopilla based on the Results of Its Monitoring and Follow-up on Environmental Indicators
- **Chapter 1.3-** Description of the Organization of the Environmental Management System
- **Chapter 1.4-** Compliance Review
- **Chapter 1.5-** Environmental Report
- **Chapter 1.6-** Environmental Practices Carried Out in the Port of Tocopilla during the period 2022

For more information, see:
https://www.sqm.com/contacto

SQM's Port of Tocopilla Environmental Report will be updated once every two years and will be published on SQM's website.



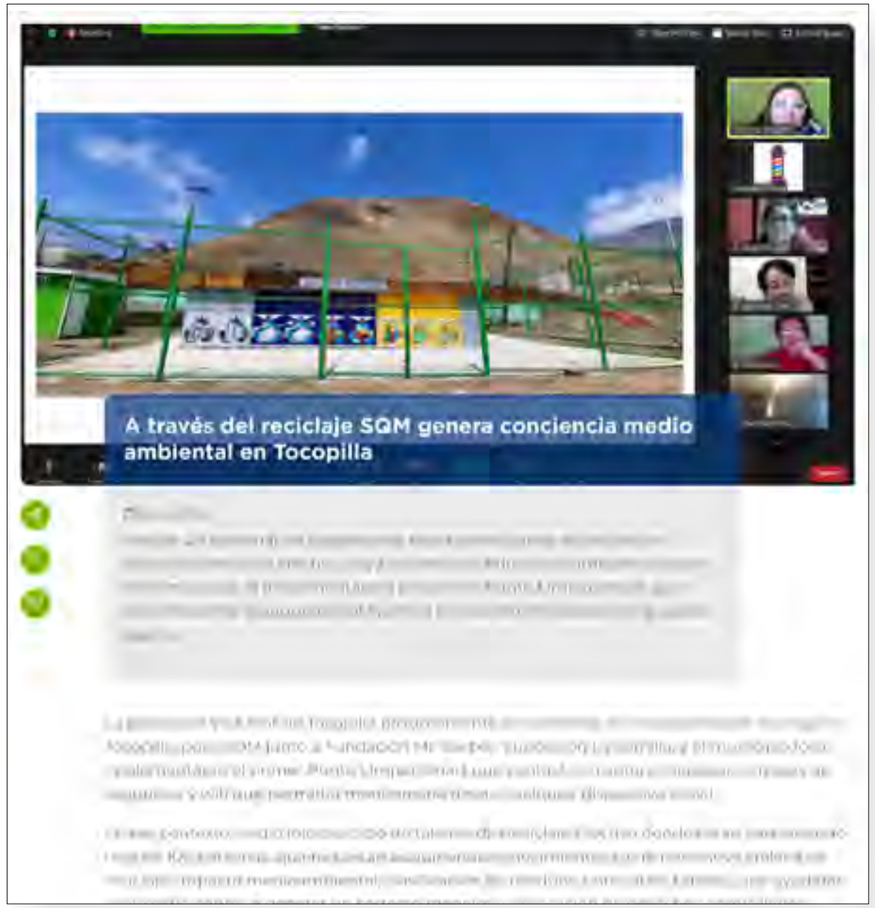
1.5.2 Environmental Initiatives Developed at the Port of Tocopilla

SQM has a News Portal designed to keep the organization updated on the measures, activities and commitments that have been carried out in SQM's different operations. The following are some of the news items on the environmental initiatives developed at the Port of Tocopilla during 2022.

Read more

Read more

Read more



Read more

1.6 Environmental Practices

1.6.1 Installation of Sensors to Measure Particulate Matter at the Port of Tocopilla

Chile

María Cruz
Environmental Engineer
maria.cruz.sepulveda@sqm.com

Environmental Problem

Air quality (1)

Dust (10)

The 5 E's of the ESPO Green Guide action framework

Exemplify / Enable / Encourage / Engage / Enforce

Project Title

Installation of sensors to measure Particulate Matter at the Port of Tocopilla

Description

PurpleAir Sensors are instruments that measure the concentrations of particulate matter (PM) from 2.5 and 10 microns in real time.

The data are transmitted via Wi-Fi and stored for review.

There are currently three sensors installed in strategic locations that measure the wind currents that normally occur in Tocopilla. They are located near to the community.

Because the solution is necessary

The purpose of this monitoring is to keep track of any deviation in particulate matter, observing the air quality in the city of Tocopilla during operations in real time.

Cost Benefits

US$ 5,100

Relevance

Air quality

Technical Information

PurpleAir Sensor

Links

http://viasqm2/Informate/Paginas/La-Sostenibilidad-sopla-fuerte-en-el-puerto.aspx

1.6.2 Installation of Sensors for Sea Condition Reading and Forecasting

Chile

Joaquín Barra
Marine Operations Engineer
joaquin.barra.conolef@sqm.com

Environmental Problem

Climate change (5)

Cargo spill (4)

Port development (23)

The 5 E's of the ESPO Green Guide action framework

Exemplify / Enable / Encourage / Engage / Enforce

Project Title

Installation of sensors for sea condition reading and forecasting.

Description

Due to climate change, swells or bad sea conditions are becoming more and more frequent on our coasts. They prevent us from operating in our port safely or efficiently.

In our ongoing efforts to ensure that our operations are safe, we have installed a series of sensors that allow us to objectively quantify sea conditions in real time. This allows us to always work under operational parameters at all times, thus achieving safe operations. These data, bathymetry, nautical charts and other tools allowed us to model our bay and generate a local forecast of swells seven days in advance. (Our current goal is to increase the lead time to 16 days.)

Why the Solution is Necessary

It is necessary because we can always work safely with an objective reading to make operational decisions. Seven to 16-day forecasts and sea condition projections allow us to plan port operations well in advance, adding resources, adjusting shipping sequences, changing priorities in case of approaching swells and dispatching ships before swells arrive. Avoiding possible adverse environmental scenarios in the port in the event of any spill situation at sea.

Cost Benefits

The costs are marginal compared to the benefits since with this active tool we have not had accidents caused by poor sea conditions (two years without PTCA). In addition, we have increased the number of open port days because real time wave height sensors are also monitored by the local maritime authority which closes the port only when real conditions necessitate such action, and openings anticipated by our forecast.

Relevance

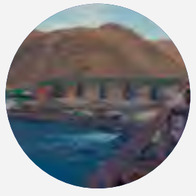
In our operation, the use of this tool is rooted in operational procedures and standards. As such, it is extremely important. If parameters indicate that the sea condition is over the limit, the operation will not be carried out, as it compromises the safety of our people due to the high risk involved.

Technical Information

We have three sensors, two floating buoys and a current meter located at 13 m under the sea installed in strategic locations within the bay.

Links

https://www.sqm.com/puerto-tocopilla/



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Solutions
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progress