

ภาคผนวก

ภาคผนวก ก ลำเนาผลการพิจารณารายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อม

- ภาคผนวก ก-1 หนังสือเห็นชอบรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมจากสำนักงานนโยบายและแผนทรัพยากรธรรมชาติและสิ่งแวดล้อม (สผ.)
- ภาคผนวก ก-2 หนังสือเห็นชอบรายงานการเปลี่ยนแปลงรายละเอียดโครงการในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อม

ภาคผนวก ข เอกสารประกอบผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม

- ภาคผนวก ข-1 เอกสารแผนผังการใช้ประโยชน์ที่ดิน (Master Plan)
- ภาคผนวก ข-2 แผนปฏิบัติการควบคุมภาวะฉุกเฉินของโครงการ
- ภาคผนวก ข-3 ลำเนาหนังสือนำส่งรายงานฯ ฉบับเดือนมกราคม-มิถุนายน พ.ศ. 2567 ต่อหน่วยงานต่างๆ
- ภาคผนวก ข-4 แบบฟอร์มคำขอแจ้งเริ่มประกอบอุตสาหกรรมใน กนอ. 01/1
- ภาคผนวก ข-5 บัญชีรายชื่อประเภทอุตสาหกรรมที่เข้ามาดำเนินการภายในพื้นที่โครงการ
- ภาคผนวก ข-6 ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้งของโรงงาน
- ภาคผนวก ข-7 เอกสารขั้นตอนการรับเรื่องร้องเรียน ภายใต้ระบบมาตรฐานสิ่งแวดล้อม ISO14001
- ภาคผนวก ข-8 ผลการตรวจวัดคุณภาพอากาศจากปล่องระบายและอัตราการระบายมลสารและค่าความเข้มข้นของมลสารกรณีโรงงานที่เข้าข่ายต้องจัดทำ
- ภาคผนวก ข-9 แผนผังพื้นที่อุตสาหกรรมที่ไม่มีการระบายมลสารอากาศ
- ภาคผนวก ข-10 ผลการตรวจวัดคุณภาพอากาศแบบอัตโนมัติ และรายงานการตรวจสอบคุณภาพการทำงานของสถานีตรวจวัดคุณภาพอากาศในบรรยากาศ
- ภาคผนวก ข-11 ตัวอย่างผลการตรวจวัดระดับเสียงบริเวณรั้วโรงงาน
- ภาคผนวก ข-12 แผนการจัดการคุณภาพน้ำทิ้งและมาตรการควบคุมคุณภาพน้ำเสียของโครงการ
- ภาคผนวก ข-13 เอกสารแบบการก่อสร้างระบบบำบัดน้ำเสียของโรงงาน
- ภาคผนวก ข-14 ปริมาณน้ำเสียที่เข้าระบบบำบัดน้ำเสียส่วนกลาง
- ภาคผนวก ข-15 เอกสารผู้ควบคุมดูแลระบบบำบัดน้ำเสีย
- ภาคผนวก ข-16 เอกสารการตรวจสอบอุปกรณ์ระบบบำบัดน้ำเสีย
- ภาคผนวก ข-17 ผลการตรวจวัดลักษณะสมบัติน้ำทิ้งหลังผ่านระบบบำบัดน้ำเสียส่วนกลางของโครงการ
- ภาคผนวก ข-18 เอกสารแผนผังการปลูกต้นไม้
- ภาคผนวก ข-19 เอกสารสนับสนุนโครงการศึกษาข้อมูลพื้นฐานด้านทรัพยากรป่าไม้และสัตว์ป่า
- ภาคผนวก ข-20 โครงการศึกษาแนวโน้มผลกระทบที่เปลี่ยนแปลงของน้ำฝนในพื้นที่
- ภาคผนวก ข-21 เอกสารสนับสนุนทุนงานวิจัยเกี่ยวกับผลกระทบการตกของมลสารจากกิจกรรมของโครงการต่อพื้นที่เกษตรและชุมชนโดยรอบโครงการ
- ภาคผนวก ข-22 โครงการศึกษาวิจัยที่เปลี่ยนแปลงด้านอุดมศึกษา

ภาคผนวก (ต่อ)

- ภาคผนวก ข-23 ผลการจัดทำข้อมูล Baseline data ด้านคุณภาพอากาศ
- ภาคผนวก ข-24 ผลการจัดทำข้อมูล Baseline data ด้านคุณภาพน้ำผิวดิน คุณภาพดิน ตะกอนท้องน้ำ และคุณภาพดิน
- ภาคผนวก ข-25 แผนการปฏิบัติงานดูแลวางระบายน้ำในพื้นที่โครงการ
- ภาคผนวก ข-26 เอกสารการปรับปรุงท่อลอดและคลองธรรมชาติ
- ภาคผนวก ข-27 ตัวอย่างใบกำกับการขนส่งของเสียของโรงงาน (Manifest form)
- ภาคผนวก ข-28 เอกสารแต่งตั้งคณะกรรมการแนวทางการจัดการของเสีย
- ภาคผนวก ข-29 รายชื่อหน่วยงานที่ได้รับอนุญาตรับกำจัดของเสีย
- ภาคผนวก ข-30 ปริมาณของเสีย ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567
- ภาคผนวก ข-31 เอกสารการดำเนินงานด้านมลชนสัมพันธ์ ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2567
- ภาคผนวก ข-32 สรุปการประชุมคณะกรรมการติดตามตรวจสอบด้านสิ่งแวดล้อมและมลชนสัมพันธ์ ประจำปี 2567
- ภาคผนวก ข-33 เอกสารการแต่งตั้งจัดตั้งคณะกรรมการติดตามตรวจสอบด้านสิ่งแวดล้อมและมลชนสัมพันธ์
- ภาคผนวก ข-34 กิจกรรมส่งเสริมหรือสนับสนุนการจัดการอบรมวิชาชีพ และส่งเสริมผลิตภัณฑ์ท้องถิ่น
- ภาคผนวก ข-35 เอกสารการประชุมด้านความปลอดภัยในนิคมอุตสาหกรรม Safety Club
- ภาคผนวก ข-36 คู่มือความปลอดภัยและมาตรการต่างๆ ด้านความปลอดภัยของโรงงาน
- ภาคผนวก ข-37 การฝึกซ้อมแผนฉุกเฉินของโครงการ และโรงงานในพื้นที่นิคมฯ
- ภาคผนวก ข-38 การตรวจสอบอุปกรณ์ฉุกเฉิน
- ภาคผนวก ข-39 แผนป้องกันและบรรเทาอุบัติเหตุของโรงงานในพื้นที่ที่มีความเสี่ยงในการใช้สารเคมี และพื้นที่ที่มีโอกาสหกรั่วไหล
- ภาคผนวก ข-40 สรุปสถิติอุบัติเหตุภายในโครงการ
- ภาคผนวก ข-41 บัญชีรายชื่อสารเคมี และสารตัวทำลายที่อาจเป็นอันตรายภายในโรงงาน พร้อมมาตรการจัดการในกรณีเกิดอุบัติเหตุหกรั่วหรือรั่วไหล
- ภาคผนวก ข-42 แผนป้องกันและระงับอัคคีภัยจากสารเคมีของโรงงาน
- ภาคผนวก ข-43 การตรวจสอบสภาพพนักงาน ประจำปี 2567
- ภาคผนวก ข-44 รายชื่อและบุคคลหรือหน่วยงานที่รับผิดชอบเกี่ยวกับการแจ้งเหตุฉุกเฉิน
- ภาคผนวก ข-45 รายงานการบำรุงรักษาดูแลต้นไม้แนวกันชนของโครงการ
- ภาคผนวก ข-46 เอกสารการออกแบบโครงสร้างการเติมอากาศแบบขั้นบันได (Cascade Aeration)
- ภาคผนวก ข-47 สถิติปริมาณการใช้น้ำของพื้นที่อุตสาหกรรม/พาณิชยกรรมภายในพื้นที่โครงการ
- ภาคผนวก ข-48 ตัวอย่างการจัดทำฐานข้อมูลสารสนเทศทางภูมิศาสตร์ (GIS) และสิ่งแวดล้อม

ภาคผนวก (ต่อ)

- ภาคผนวก ข-49 สถิติรายงานผู้ป่วยนอกตามสาเหตุ 21 กลุ่มโรค (รง. 504) โรงพยาบาลส่งเสริมสุขภาพตำบล
ในรัศมี 5 กิโลเมตร
- ภาคผนวก ข-50 สถิติข้อมูลอุบัติเหตุบนถนนทางหลวง 331 และ 3138 ประจำปี 2567
- ภาคผนวก ข-51 รายงานสรุปผลการสำรวจสภาพเศรษฐกิจ-สังคม และความคิดเห็นของประชาชน ประจำปี 2567
- ภาคผนวก ค ใบรับรองผลการตรวจวิเคราะห์**
- ภาคผนวก ค-1 คุณภาพอากาศในบรรยากาศ
- ภาคผนวก ค-2 คุณภาพน้ำผิวดิน
- ภาคผนวก ค-3 คุณภาพน้ำจากระบบบำบัดน้ำเสียส่วนกลางทางชีวภาพ
- ภาคผนวก ค-4 ระดับเสียงโดยทั่วไป
- ภาคผนวก ค-5 คุณภาพดิน
- ภาคผนวก ง เอกสารการสอบเทียบเครื่องมือตรวจวิเคราะห์
- ภาคผนวก จ สำเนาหนังสืออนุญาตขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชนจากกรมโรงงานอุตสาหกรรม

ภาคผนวก ก

สำเนาผลการพิจารณารายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อม

ภาคผนวก ก-1

หนังสือเห็นชอบรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมจากสำนักงานนโยบาย
และแผนทรัพยากรธรรมชาติและสิ่งแวดล้อม (สผ.)



ที่ ทส ๑๐๐๙.๓/ ๖ ๓ ๕ ๓

สำนักงานนโยบายและแผน
ทรัพยากรธรรมชาติและสิ่งแวดล้อม
ถนนพระรามที่ ๖ แขวงสามเสนใน
เขตพญาไท กรุงเทพฯ ๑๐๔๐๐

๒๒ มิถุนายน ๒๕๕๘

เรื่อง แจ้งผลการพิจารณารายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อม โครงการนิคมอุตสาหกรรมเหมราช
อีสเทิร์นซีบอร์ด ๒

เรียน กรรมการผู้จัดการบริษัท เหมราชพัฒนาที่ดิน จำกัด (มหาชน)

อ้างถึง หนังสือสำนักงานนโยบายและแผนทรัพยากรธรรมชาติและสิ่งแวดล้อม ที่ ทส ๑๐๐๙.๓/๑๓๘๑๘
ลงวันที่ ๘ ธันวาคม ๒๕๕๗

- สิ่งที่ส่งมาด้วย ๑. สำเนาหนังสือการนิคมอุตสาหกรรมแห่งประเทศไทย ที่ อก ๕๑๐๔.๓.๒/๑๗๒๒
ลงวันที่ ๒๐ เมษายน ๒๕๕๘
๒. สำเนาหนังสือการนิคมอุตสาหกรรมแห่งประเทศไทย ที่ อก ๕๑๐๔.๓.๒/๑๙๙๓
ลงวันที่ ๑๑ พฤษภาคม ๒๕๕๘
๓. มาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบ
ผลกระทบสิ่งแวดล้อม โครงการนิคมอุตสาหกรรมเหมราชอีสเทิร์นซีบอร์ด ๒ ตั้งอยู่ที่
ตำบลเขาคันทรง อำเภอศรีราชา และตำบลคลองแก้ว อำเภอบ้านบึง จังหวัดชลบุรี
ที่บริษัท เหมราชพัฒนาที่ดิน จำกัด (มหาชน) ต้องยึดถือปฏิบัติอย่างเคร่งครัด
๔. แนวทางการเสนอรายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม
และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม สำหรับโครงการด้านอุตสาหกรรม
โครงการนิคมอุตสาหกรรม หรือโครงการที่มีลักษณะเดียวกับนิคมอุตสาหกรรมและโครงการ
ด้านพลังงาน

ตามหนังสือที่อ้างถึง สำนักงานนโยบายและแผนทรัพยากรธรรมชาติและสิ่งแวดล้อม ได้แจ้งมติ
คณะกรรมการผู้ชำนาญการพิจารณารายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมด้านอุตสาหกรรมและระบบ
สาธารณูปโภคที่สนับสนุน ในการประชุมครั้งที่ ๓๗/๒๕๕๗ เมื่อวันที่ ๒๖ พฤศจิกายน ๒๕๕๗ ซึ่งคณะกรรมการ
ผู้ชำนาญการฯ มีมติไม่ให้ความเห็นชอบรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อม โครงการนิคมอุตสาหกรรม
เหมราชอีสเทิร์นซีบอร์ด ๒ ของบริษัท เหมราชพัฒนาที่ดิน จำกัด (มหาชน) ตั้งอยู่ที่ตำบลเขาคันทรง อำเภอ
ศรีราชา และตำบลคลองแก้ว อำเภอบ้านบึง จังหวัดชลบุรี โดยให้แก้ไขเพิ่มเติมรายละเอียดในรายงานให้

ครบถ้วน...

ครบถ้วนสมบูรณ์ ต่อมาการนิคมอุตสาหกรรมแห่งประเทศไทยได้เสนอข้อมูลเพิ่มเติม ครั้งที่ ๒ ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อม โครงการนิคมอุตสาหกรรมเหมราชอีสเทิร์นซีบอร์ด ๒ ดังกล่าว ให้สำนักงานนโยบายฯ ดำเนินการตามขั้นตอนการพิจารณารายงาน รายละเอียดตามสิ่งที่ส่งมาด้วย ๑ และ ๒ นั้น

สำนักงานนโยบายและแผนทรัพยากรธรรมชาติและสิ่งแวดล้อม ได้พิจารณาข้อมูลดังกล่าวเบื้องต้นและนำเสนอต่อคณะกรรมการผู้ชำนาญการพิจารณารายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมด้านอุตสาหกรรมและระบบสาธารณูปโภคที่สนับสนุน ในการประชุมครั้งที่ ๑๗/๒๕๕๘ เมื่อวันที่ ๒๐ พฤษภาคม ๒๕๕๘ คณะกรรมการผู้ชำนาญการฯ พิจารณาแล้ว มีมติให้ความเห็นชอบรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อม โครงการนิคมอุตสาหกรรมเหมราชอีสเทิร์นซีบอร์ด ๒ ของบริษัท เหมราชพัฒนาที่ดิน จำกัด (มหาชน) ตั้งอยู่ที่ตำบลเขาคันทรง อำเภอสรีราชา และตำบลคลองกiew อำเภอบ้านบึง จังหวัดชลบุรี โดยให้บริษัท เหมราชพัฒนาที่ดิน จำกัด (มหาชน) ปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อมที่เสนอไว้ในรายงานฯ อย่างเคร่งครัด รายละเอียดตามสิ่งที่ส่งมาด้วย ๓ ทั้งนี้ หากท่านได้รับอนุญาตจากหน่วยงานอนุญาตแล้ว สำนักงานนโยบายฯ ขอความร่วมมือท่านส่งสำเนาใบอนุญาตพร้อมเงื่อนไขให้สำนักงานนโยบายฯ ทราบด้วย และเมื่อมีการเริ่มดำเนินโครงการแล้วจะต้องเสนอรายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อมและมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม ตามสิ่งที่ส่งมาด้วย ๔ รวมทั้งโครงการจะต้องปฏิบัติตามกฎหมายอื่นใดที่เกี่ยวข้องด้วย และประสานผู้จัดทำรายงานฯ ให้ดำเนินการรวบรวมรายละเอียดข้อมูลทั้งหมดเรียงตามลำดับการพิจารณาของคณะกรรมการผู้ชำนาญการฯ จำนวน ๑ เล่ม พร้อมแผ่นบันทึกข้อมูล (CD-ROM) ในรูปของ Digital File (PDF) Adobe Acrobat จำนวน ๒ แผ่น พร้อมทั้งให้จัดทำรายงานฉบับสมบูรณ์ที่ปรับปรุงตามข้อคิดเห็นของคณะกรรมการผู้ชำนาญการฯ จำนวน ๓ เล่ม พร้อมแผ่นบันทึกข้อมูล (CD-ROM) ในรูปของ Digital File (PDF) Adobe Acrobat จำนวน ๘ แผ่น เสนอต่อสำนักงานนโยบายฯ ภายใน ๑ เดือน เพื่อใช้เป็นเอกสารอ้างอิงและส่งให้หน่วยงานที่เกี่ยวข้องต่อไป ทั้งนี้ สำนักงานนโยบายฯ ได้สำเนาหนังสือแจ้งบริษัท แอร์เซฟ จำกัด เพื่อดำเนินการในส่วนที่เกี่ยวข้องต่อไปด้วยแล้ว

จึงเรียนมาเพื่อโปรดทราบ

ขอแสดงความนับถือ



(นางปิยนันท์ โสภณคณภรณ์)

รองเลขาธิการฯ ปฏิบัติราชการแทน

เลขาธิการสำนักงานนโยบายและแผนทรัพยากรธรรมชาติและสิ่งแวดล้อม

สำนักวิเคราะห์ผลกระทบสิ่งแวดล้อม

โทร. ๐ ๒๒๖๕ ๖๕๐๐ ต่อ ๖๕๒๘

โทรสาร ๐ ๒๒๖๕ ๖๖๑๖

ภาคผนวก ก-2

หนังสือเห็นชอบรายงานการเปลี่ยนแปลงรายละเอียดโครงการ
ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อม

ที่ อก 5104.3.2/ 4412



การนิคมอุตสาหกรรมแห่งประเทศไทย
618 ถนนนิคมมักกะสัน แขวงมักกะสัน
เขตราชเทวี กรุงเทพฯ 10400

๗ ตุลาคม 2559

เรื่อง ผลการพิจารณารายงานการเปลี่ยนแปลงรายละเอียดโครงการในรายงานการวิเคราะห์ผลกระทบ
สิ่งแวดล้อม โครงการนิคมอุตสาหกรรมเหมราชอีสเทิร์นซีบอร์ด แห่งที่ 2

เรียน กรรมการผู้จัดการบริษัท เหมราชพัฒนาที่ดิน จำกัด (มหาชน)

อ้างถึง หนังสือบริษัท เหมราชพัฒนาที่ดิน จำกัด (มหาชน) ที่ HRD 327/2559 ลงวันที่ 17 สิงหาคม 2559

ตามหนังสือที่อ้างถึง บริษัท เหมราชพัฒนาที่ดิน จำกัด (มหาชน) ได้เสนอรายงาน
การเปลี่ยนแปลงรายละเอียดโครงการในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อม โครงการนิคมอุตสาหกรรม
เหมราชอีสเทิร์นซีบอร์ด แห่งที่ 2 ตั้งอยู่ที่ตำบลเขาตันหยง อำเภอศรีราชา จังหวัดชลบุรี และตำบลคลองกiew อำเภอบ้านบึง จังหวัดชลบุรี ให้การนิคมอุตสาหกรรมแห่งประเทศไทย (กนอ.) พิจารณา ความละเอียดแจ้งแล้ว นั้น

กนอ. โดยคณะกรรมการพิจารณาการเปลี่ยนแปลงรายละเอียดในรายงานการวิเคราะห์
ผลกระทบสิ่งแวดล้อมโครงการนิคมอุตสาหกรรม ได้พิจารณารายงานดังกล่าวในการประชุมครั้งที่ 3/2559
เมื่อวันที่ 31 สิงหาคม 2559 มีมติเห็นชอบกับรายงานการเปลี่ยนแปลงรายละเอียดโครงการ
ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมโครงการนิคมอุตสาหกรรมเหมราชอีสเทิร์นซีบอร์ด แห่งที่ 2
ของบริษัท เหมราชพัฒนาที่ดิน จำกัด (มหาชน) ทั้งนี้ ขอให้บริษัทฯ จัดส่งรายงานการวิเคราะห์ผลกระทบ
สิ่งแวดล้อม ฉบับสมบูรณ์ จำนวน 23 ชุด และแผ่นบันทึกข้อมูล (CD) จำนวน 3 ชุด ให้ กนอ. เพื่อใช้ประโยชน์
และดำเนินการในส่วนที่เกี่ยวข้องต่อไป

จึงเรียนมาเพื่อโปรดทราบและพิจารณาดำเนินการต่อไป

ขอแสดงความนับถือ

(นายกิตติวัฒน์ ตรีเจริญสมบูรณ์)

ผู้อำนวยการฝ่ายบริการผู้ร่วมดำเนินงาน ทำการแทน

รองผู้ว่าการ ปฏิบัติงานแทน

ผู้ว่าการการนิคมอุตสาหกรรมแห่งประเทศไทย

ฝ่ายสิ่งแวดล้อม

กองสิ่งแวดล้อมและพลังงาน

โทร 0 2253 0561 ต่อ 6306

โทรสาร 0 2650 0466

ที่ อก 5102.3.1/ 1618



การนิคมอุตสาหกรรมแห่งประเทศไทย
618 ถนนนิคมมักกะสัน แขวงมักกะสัน
เขตราชเทวี กรุงเทพฯ 10400

11 มิถุนายน 2563

เรื่อง ขอแจ้งผลการพิจารณารายงานการเปลี่ยนแปลงรายละเอียดโครงการในรายงานการประเมินผลกระทบสิ่งแวดล้อม โครงการนิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2 (ครั้งที่ 2) ของบริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลลอปเม้นท์ จำกัด (มหาชน)

เรียน กรรมการผู้จัดการบริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลลอปเม้นท์ จำกัด (มหาชน)

อ้างถึง หนังสือบริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลลอปเม้นท์ จำกัด (มหาชน) ที่ WHAID 155/2563 ลงวันที่ 2 มิถุนายน 2563

ตามหนังสือที่อ้างถึง บริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลลอปเม้นท์ จำกัด (มหาชน) ได้ส่งมอบรายงานการเปลี่ยนแปลงรายละเอียดโครงการในรายงานการประเมินผลกระทบสิ่งแวดล้อม โครงการนิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2 (ครั้งที่ 2) ฉบับสมบูรณ์ ตั้งอยู่ที่ตำบลเขาคันทรง อำเภอศรีราชา และตำบลคลองกิ่ว อำเภอบ้านบึง จังหวัดชลบุรี ซึ่งการนิคมอุตสาหกรรมแห่งประเทศไทย (กนอ.) โดยคณะกรรมการพิจารณารายงานผลกระทบสิ่งแวดล้อมเบื้องต้น และพิจารณาการเปลี่ยนแปลงรายละเอียดโครงการในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อม ได้มีมติในการประชุมครั้งที่ 4/2563 เมื่อวันที่ 19 พฤษภาคม 2563 เห็นชอบในรายงานฯ ดังกล่าว ความละเอียดแจ้งแล้ว นั้น

กนอ. ขอให้บริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลลอปเม้นท์ จำกัด (มหาชน) ยึดถือและปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม ที่เสนอไว้ในรายงานฯ อย่างเคร่งครัด

จึงเรียนมาเพื่อโปรดทราบและพิจารณาดำเนินการต่อไป

ขอแสดงความนับถือ

(นายอรรถพล จีรวัดน์จรรยา)

รองผู้ว่าการ ปฏิบัติงานแทน

ผู้ว่าการการนิคมอุตสาหกรรมแห่งประเทศไทย

ฝ่ายสิ่งแวดล้อม

กองสิ่งแวดล้อมและพลังงาน

โทรศัพท์ 0 2253 0561 ต่อ 6306

โทรสาร 0 2650 0466

ที่ อก 5103.3.1/ 4075



การนิคมอุตสาหกรรมแห่งประเทศไทย
618 ถนนนิคมมักกะสัน แขวงมักกะสัน
เขตราชเทวี กรุงเทพฯ 10400

๔๖ ธันวาคม 2566

เรื่อง ขอแจ้งผลการพิจารณารายงานการเปลี่ยนแปลงรายละเอียดโครงการในรายงานการประเมินผลกระทบ
สิ่งแวดล้อม โครงการนิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2 (ครั้งที่ 3)
ของบริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลอปเม้นท์ จำกัด (มหาชน)

เรียน กรรมการผู้จัดการบริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลอปเม้นท์ จำกัด (มหาชน)

อ้างถึง หนังสือบริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลอปเม้นท์ จำกัด (มหาชน) ที่ WHAID 296/2566
ลงวันที่ 18 ธันวาคม 2566

ตามหนังสือที่อ้างถึง บริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลอปเม้นท์ จำกัด (มหาชน) ได้ส่ง
มอบรายงานการเปลี่ยนแปลงรายละเอียดโครงการในรายงานการประเมินผลกระทบสิ่งแวดล้อม โครงการนิคม
อุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2 (ครั้งที่ 3) ตั้งอยู่ที่ตำบลเขาคันทรง อำเภอศรีราชา และตำบล
คลองกิว อำเภอบ้านบึง จังหวัดชลบุรี ซึ่งจัดทำรายงานฯ โดยบริษัท เอ็นไว เวอร์ค จำกัด ทั้งนี้ การนิคมอุตสาหกรรม
แห่งประเทศไทย (กนอ.) โดยคณะกรรมการพิจารณารายงานผลกระทบสิ่งแวดล้อมเบื้องต้นและพิจารณา
การเปลี่ยนแปลงรายละเอียดโครงการในรายงานการประเมินผลกระทบสิ่งแวดล้อม ได้มีมติให้ความเห็นชอบ
รายงานดังกล่าว ในการประชุมฯ ครั้งที่ 12/2566 เมื่อวันที่ 16 พฤศจิกายน 2566 ความละเอียดแจ้งแล้ว นั้น

กนอ. ขอให้บริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลอปเม้นท์ จำกัด (มหาชน) ยึดถือและ
ปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบ
สิ่งแวดล้อมที่เสนอไว้ในรายงานฯ อย่างเคร่งครัด

จึงเรียนมาเพื่อโปรดทราบและพิจารณาดำเนินการต่อไป

ขอแสดงความนับถือ

(นางนิภา รุกขมธุร์)

รองผู้ว่าการ (ยุทธศาสตร์) รักษาการในตำแหน่ง
รองผู้ว่าการ (พัฒนาที่ยั่งยืน) ปฏิบัติงานแทน
ผู้ว่าการการนิคมอุตสาหกรรมแห่งประเทศไทย

ฝ่ายสิ่งแวดล้อม ความปลอดภัย และอาชีวอนามัย

กองสิ่งแวดล้อม

โทรศัพท์ 0 2253 0561 ต่อ 6306

โทรสาร 0 2650 0466

ไปรษณีย์อิเล็กทรอนิกส์ env.ieat@gmail.com

ที่ อก 5103.3.1/1589



การนิคมอุตสาหกรรมแห่งประเทศไทย
618 ถนนนิคมมักกะสัน แขวงมักกะสัน
เขตราชเทวี กรุงเทพฯ 10400

21 พฤษภาคม 2567

เรื่อง ขอแจ้งผลการพิจารณารายงานการเปลี่ยนแปลงรายละเอียดโครงการในรายงานการประเมินผลกระทบ
สิ่งแวดล้อมโครงการนิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2 (ครั้งที่ 4)
ของบริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลลอปเม้นท์ จำกัด (มหาชน)
เรียน กรรมการผู้จัดการบริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลลอปเม้นท์ จำกัด (มหาชน)
อ้างอิง หนังสือบริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลลอปเม้นท์ จำกัด (มหาชน) ที่ WHAID 055/2567
ลงวันที่ 14 พฤษภาคม 2567

ตามหนังสือที่อ้างถึง บริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลลอปเม้นท์ จำกัด (มหาชน) ได้ส่งมอบ
รายงานการเปลี่ยนแปลงรายละเอียดโครงการในรายงานการประเมินผลกระทบสิ่งแวดล้อมโครงการนิคมอุตสาหกรรม
ดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2 (ครั้งที่ 4) ตั้งอยู่ที่ตำบลเขาคันทรัง อำเภอสรีราชา และตำบลคลองกิว อำเภอบ้านบึง
จังหวัดชลบุรี ซึ่งจัดทำรายงานฯ โดยบริษัท เอ็นไว เวิร์ค จำกัด ทั้งนี้ การนิคมอุตสาหกรรมแห่งประเทศไทย (กนอ.)
โดยคณะกรรมการพิจารณารายงานผลกระทบสิ่งแวดล้อมเบื้องต้นและพิจารณาการเปลี่ยนแปลงรายละเอียด
โครงการในรายงานการประเมินผลกระทบสิ่งแวดล้อม ได้มีมติให้ความเห็นชอบรายงานดังกล่าว ในการประชุมฯ
ครั้งที่ 5/2567 เมื่อวันที่ 24 เมษายน 2567 ความละเอียดแจ้งแล้ว นั้น

ทั้งนี้ กนอ. ขอให้บริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลลอปเม้นท์ จำกัด (มหาชน) ยึดถือและ
ปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม
ที่เสนอไว้ในรายงานฯ อย่างเคร่งครัด

จึงเรียนมาเพื่อโปรดทราบและพิจารณาดำเนินการต่อไป

ขอแสดงความนับถือ

(นางบุปผา กวินวติน)

รองผู้ว่าการ (พัฒนาที่ยั่งยืน) ปฏิบัติงานแทน
ผู้ว่าการการนิคมอุตสาหกรรมแห่งประเทศไทย

ฝ่ายสิ่งแวดล้อม ความปลอดภัย และอาชีวอนามัย
กองสิ่งแวดล้อม
โทรศัพท์ 0 2253 0561 ต่อ 6306
ไปรษณีย์อิเล็กทรอนิกส์ env.ieat@gmail.com

ภาคผนวก ข

เอกสารประกอบผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม

ภาคผนวก ข-1

เอกสารแผนผังการใช้ประโยชน์ที่ดิน (Master Plan)

ที่ อก 5102.2.3/ 822



การนิคมอุตสาหกรรมแห่งประเทศไทย
618 ถนนนิคมมักกะสัน แขวงมักกะสัน
เขตราชเทวี กรุงเทพฯ 10400

/6 มีนาคม 2563

เรื่อง การอนุมัติแก้ไขผังแม่บทนิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2 ครั้งที่ 12

เรียน กรรมการผู้จัดการบริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลลอปเม้นท์ จำกัด (มหาชน)

อ้างถึง คำขออนุมัติผังแม่บท เลขที่คำขอ ผ.004/2563 ลงวันที่ 21 กุมภาพันธ์ 2563

ตามที่อ้างถึง บริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลลอปเม้นท์ จำกัด (มหาชน) ได้ยื่นคำขออนุมัติแก้ไขผังแม่บทนิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2 ครั้งที่ 12 ความละเอียดแจ้งแล้ว นั้น

การนิคมอุตสาหกรรมแห่งประเทศไทย (กนอ.) ได้พิจารณาแล้ว จึงอนุมัติให้บริษัทฯ แก้ไขผังแม่บทนิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2 ครั้งที่ 12 ตามที่เสนอ โดยขอให้บริษัทฯ ชำระค่าบริการฯ (รวมภาษีมูลค่าเพิ่ม 7 %) รวมเป็นเงินทั้งสิ้น 28,355 บาท (สองหมื่นแปดพันสามร้อยห้าสิบบาทถ้วน) ณ สำนักงานใหญ่ กนอ. และติดต่อกองบริการและกำกับดูแลโครงการนิคมอุตสาหกรรม (กคน.) ในการขอรับผังแม่บท ที่ได้รับอนุมัติเพื่อถ่ายสำเนาต้นฉบับกระดาษไขไว้ใช้งาน ทั้งนี้ขอให้จัดทำหนังสือส่งคืนต้นฉบับกระดาษไขพร้อมทั้งสำเนาผังแม่บทขนาดเท่าต้นฉบับ และขนาด A3 อย่างละ 7 ชุด แผ่นคอมแพคดิสก์ CD-R บันทึกข้อมูลของผังแม่บทนิคมฯ (FILE PDF และ FILE AutoCAD) ที่ตรงกับต้นฉบับกระดาษไข พร้อมแนวคิดและหลักเกณฑ์การออกแบบที่ได้รับอนุมัติแล้วจำนวน 1 ชุด ต่อ กนอ.ภายใน 15 วัน นับแต่วันที่ได้รับหนังสือฉบับนี้

เพื่อให้การดำเนินการเป็นไปตามมาตรา 39/1 และมาตรา 71/1 แห่งพระราชบัญญัติการนิคมอุตสาหกรรมแห่งประเทศไทย พ.ศ. 2522 ซึ่งแก้ไขเพิ่มเติมโดยพระราชบัญญัติการนิคมอุตสาหกรรมแห่งประเทศไทย (ฉบับที่ 4) พ.ศ. 2550 กนอ. จึงขอให้บริษัทฯ ดำเนินการขออนุญาตจัดสรรที่ดิน ต่อ กนอ. ภายใน 90 วัน นับแต่วันที่ได้รับหนังสือฉบับนี้ ให้ถูกต้องตามกฎหมายดังกล่าวด้วย

จึงเรียนมาเพื่อโปรดทราบ และดำเนินการในส่วนที่เกี่ยวข้องต่อไป จะขอบคุณยิ่ง

ขอแสดงความนับถือ

(นายธีรฤทธิ เจริญสุข)

ผู้อำนวยการฝ่ายพัฒนา ปฏิบัติงานแทน
ผู้ว่าการการนิคมอุตสาหกรรมแห่งประเทศไทย

ฝ่ายพัฒนา

กองบริการและกำกับดูแลโครงการนิคมอุตสาหกรรม

โทร. 0 2253 0561 ต่อ 3328, 3329

โทรสาร. 0 2650 0206



นิคมอุตสาหกรรมดับเบิลเอ อีส์เทิร์นซีบอร์ด 2
จ. ชลบุรี



ได้รับการตรวจพิจารณาแล้ว

วันที่	ชื่อ	สถานที่	วันเดือนปี
01/01/63	นายสมชาย ใจดี	บ้านเลขที่ 123 หมู่ 1	12/12/63
02/01/63	นายสมชาย ใจดี	บ้านเลขที่ 123 หมู่ 1	/ /
03/01/63	นายสมชาย ใจดี	บ้านเลขที่ 123 หมู่ 1	/ /
04/01/63	นายสมชาย ใจดี	บ้านเลขที่ 123 หมู่ 1	/ /
05/01/63	นายสมชาย ใจดี	บ้านเลขที่ 123 หมู่ 1	13/3/63
06/01/63	นายสมชาย ใจดี	บ้านเลขที่ 123 หมู่ 1	14/3/63

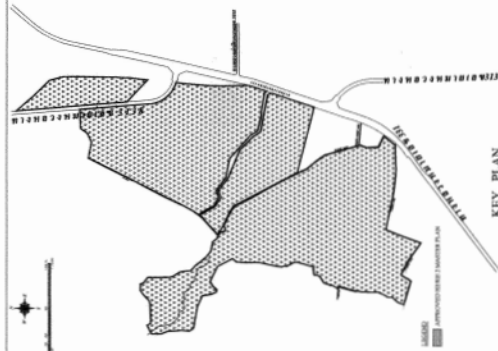
WHA
Industrial Development
Public Company Limited








บริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลอปเม้นท์ จำกัด (มหาชน)

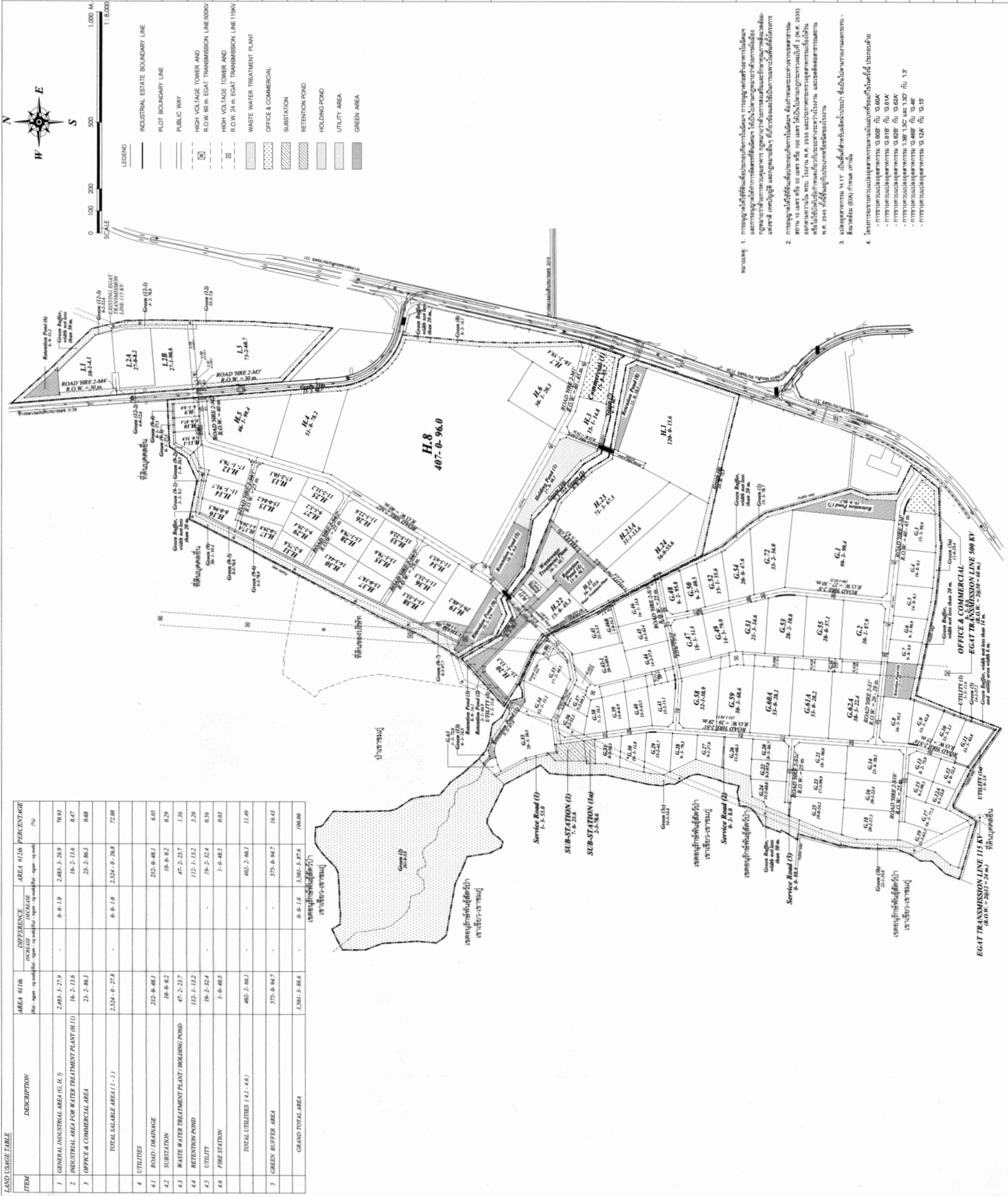
PROJECT : **นิคมอุตสาหกรรมฉบับที่สอง อีสเทิร์นซีบอร์ด 2**
จ. ชลบุรี

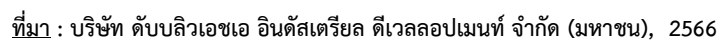
TITLE :

ผั่งแม่บท (แก้ไขครั้งที่ 12)



 <div>บริษัท อุตสาหกรรม รุกขผลิตรูปแบบ จำกัด WHA INDUSTRIAL DEVELOPMENT ENGINEERING CO., LTD.</div>	1500 Phatun, 10th Floor, Unit Ten, Pongpatana 102/25, Bangkok, Thailand TEL. 080 0-2719-9055, 9559 FAX 080 0-2719-9060 e-mail: info@wha.co.th	สถาปนิก	2-384.13	      <
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୧-୧୫

ภาคผนวก ข-2

แผนปฏิบัติการควบคุมภาวะฉุกเฉินของโครงการ



แผนฉุกเฉิน

นิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2

(EMERGENCY PLAN)

ประกาศใช้โดย



(นายรัชพล กังน้อย)

ผู้อำนวยการฝ่ายปฏิบัติการ

เอกสารฉบับนี้ เริ่มใช้วันที่ 1 มกราคม 2567

นิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2

อำเภอบ้านบึง จังหวัดชลบุรี

โทรศัพท์ (033) 005-228-9 Fax No. (033) 005-030



แผนความปลอดภัยฉุกเฉิน

Emergency Plan

WHA Eastern Seaboard Industrial Estate 2



แผนความปลอดภัยฉุกเฉิน

(EMERGENCY PLAN)

แผนฉุกเฉินนี้ใช้เป็นแนวทางปฏิบัติเมื่อเกิดเหตุเพลิงไหม้ หรือเกิดอุบัติเหตุอื่นๆ ต่อทรัพย์สินอาคารสำนักงานนิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2 โรงกรองน้ำ โรงบำบัดน้ำเสีย และพื้นที่ภายนอกโรงงาน ที่อยู่ในความรับผิดชอบของ บริษัทดับบลิวเอชเอ อีสเทิร์นซีบอร์ด อินดัสเทรียลเอสเตท จำกัด รวมทั้งร่วมประสานงานกับโรงงานที่ตั้งอยู่ภายในเขตนิคมฯ เมื่อเกิดเหตุอุบัติเหตุ หรือเกิดเหตุการณ์ฉุกเฉิน ทั้งนี้แผนฉุกเฉินฉบับนี้ได้รับการปรับปรุงให้สอดคล้องกับแผนปฏิบัติการฉุกเฉินด้านสารเคมีและวัตถุอันตราย จังหวัดชลบุรี ฉบับพฤษภาคม 2553 รวมถึงการดำเนินการเกี่ยวกับโรครบระบาด

1. วัตถุประสงค์ (Objective)

วัตถุประสงค์ของแผนฉุกเฉินหรือแผนปฏิบัติการนี้ดังนี้

1. ระงับเหตุเพื่อลด อันตราย และความเสียหายต่อชีวิตคน และชุมชนให้น้อยที่สุด
2. รักษาทรัพย์สิน และอุปกรณ์มิให้เกิดความเสียหายให้น้อยที่สุด
3. เป็นแบบแผน และแนวทางปฏิบัติ สำหรับใช้ขณะเกิดเหตุฉุกเฉิน ภายในนิคมอุตสาหกรรม โดยจะกำหนดหน้าที่ที่รับผิดชอบของแต่ละหน่วยงาน ทั้งในส่วนที่เกี่ยวข้องโดยตรง หรือไม่เกี่ยวข้องก็ตาม ในการระงับเหตุ
4. เพื่อช่วยเหลือผู้บาดเจ็บ ผู้ที่ได้รับบาดเจ็บ หรือผู้ที่ประสบเหตุ
5. สำหรับเป็นแบบอย่างในการฝึกซ้อม เพื่อเตรียมพร้อมที่จะรับมือกับสถานการณ์ที่จะเกิดขึ้นได้ดังนี้ เพื่อให้เจ้าหน้าที่ และผู้รับผิดชอบเกิดความชำนาญ และนำข้อผิดพลาด, ข้อบกพร่อง มาปรับปรุง และแก้ไขต่อไป
6. เพื่อการฟื้นฟูและปรับปรุงสถานที่เกิดเหตุให้กลับสู่สภาพปกติ

2. ขอบเขต (Scope)

แผนฉุกเฉินตามระเบียบนี้ครอบคลุมถึงเหตุการณ์ฉุกเฉินที่เกิดขึ้นภายในนิคมอุตสาหกรรมรวมทั้งระบบท่อส่งก๊าซและผลกระทบต่อบริษัทหรือชุมชนข้างเคียง โดยมีขอบเขตของเหตุการณ์ดังนี้

7. กรณีเกิดอัคคีภัย
8. กรณีสารเคมีหกรั่วไหล, รบรบกจากสารเคมี พลิกคว่ำ
9. กรณีเกิดเหตุจากระบบท่อส่งผลิตภัณฑ์, ท่อส่งก๊าซ PTT.
10. กรณีเหตุที่เกิดจากโรงงานภายในนิคมอุตสาหกรรม ที่ส่งผลกระทบต่อส่วนรวม
11. กรณีเกิดเหตุอุทกภัย

เอกสารฉบับนี้ เริ่มใช้วันที่ 1 มกราคม 2567 ถึง วันที่ 31 ธันวาคม 2567

หน้า 2/39



แผนความปลอดภัยฉุกเฉิน

Emergency Plan

WHA Eastern Seaboard Industrial Estate 2



12. กรณีเกิดการชุมนุมประท้วง
13. การป้องกันและควบคุมภัยจากโรคติดต่อและโรครบระบาด

2. คำจำกัดความ

1. **ภาวะฉุกเฉินหรือเหตุฉุกเฉิน** หมายถึง (Emergency) สภาวะที่มีอันตรายหรืออันตรายแฝงสูงซึ่งเมื่อเกิดขึ้นแล้วส่งผลกระทบต่อชีวิต ทรัพย์สิน สิ่งแวดล้อม ที่ประกอบไปด้วย ไฟไหม้, น้ำท่วม, สารเคมีหกรั่วไหลหรือเป็นสภาวะที่เกิดขึ้นแล้วไม่สามารถควบคุมให้อยู่ในสภาวะปกติได้ในเวลาอันจำกัด
2. **อุบัติเหตุภัยสารเคมี** หมายถึง ภัยที่เกิดขึ้นจากสารเคมีและวัตถุอันตราย อันมีผลกระทบต่อสาธารณชน ไม่ว่าเกิดจากธรรมชาติ มีผู้ทำให้เกิดขึ้น อุบัติเหตุ หรือเหตุอื่นใด ซึ่งก่อให้เกิดอันตรายแก่ชีวิตร่างกายของประชาชน หรือความเสียหายแก่ทรัพย์สินของประชาชนหรือของรัฐ และสิ่งแวดล้อม
3. **การป้องกัน (Prevention)** หมายถึง มาตรการและกิจกรรมต่างๆ ที่กำหนดขึ้นล่วงหน้า ทั้งทางด้านโครงสร้าง (Structural Approach) และที่ไม่ใช่ด้านโครงสร้าง (Non Structural Approach) เพื่อลดหรือควบคุมผลกระทบในทางลบจากสาธารณภัย
4. **การลดผลกระทบ (Mitigation)** หมายถึง กิจกรรมหรือวิธีการต่างๆ เพื่อหลีกเลี่ยงและลดผลกระทบทางลบจากสาธารณภัย และยังหมายถึงการลดและป้องกันมิให้เกิดเหตุหรือลดโอกาสที่จะก่อให้เกิดสาธารณภัย
5. **การเตรียมความพร้อม (Preparedness)** หมายถึง มาตรการและกิจกรรมที่ดำเนินการล่วงหน้าก่อนเกิดสาธารณภัย เพื่อเตรียมพร้อมการจัดการในสถานการณ์ฉุกเฉิน ให้สามารถรับมือกับผลกระทบจากสาธารณภัยได้อย่างทันการณ์ และมีประสิทธิภาพ
6. **ภาวะฉุกเฉิน (Emergency)** หมายถึง สภาวะที่มีอันตรายหรืออันตรายแฝงสูง ซึ่งเมื่อเกิดขึ้นแล้วส่งผลกระทบต่อชีวิต ทรัพย์สิน สิ่งแวดล้อม หรือเป็นสภาวะที่เกิดขึ้นแล้วไม่สามารถควบคุมให้อยู่ในสภาวะปกติได้ในเวลาอันจำกัด
7. **การฟื้นฟูบูรณะ (Rehabilitation)** หมายถึง การฟื้นฟูสภาพเพื่อทำให้สิ่งที่ถูกทำลายหรือได้รับความเสียหายจากสาธารณภัยได้รับการช่วยเหลือ แก้ไขให้กลับคืนสู่สภาพเดิมหรือดีกว่าเดิม รวมทั้งทำให้ผู้ประสบภัยสามารถดำรงชีวิตตามสภาพปกติได้โดยเร็ว
8. **พื้นที่เสี่ยง (Risk Area)** หมายถึง สถานที่หรือสิ่งที่มีโอกาสหรือความเป็นไปได้ที่จะเกิดเหตุการณ์หนึ่งจะเกิดขึ้น และนำมาซึ่งผลกระทบทางลบต่างๆ ต่อชีวิตชุมชนและทรัพย์สินของประชาชน

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แผนความปลอดภัยฉุกเฉิน

Emergency Plan

WHA Eastern Seaboard Industrial Estate 2



9. **ภัยที่เกิดจากสารเคมีและวัตถุอันตราย** หมายถึง ภัยที่เกิดจากสารเคมีและวัตถุอันตรายรั่วไหล เพลิงไหม้และการระเบิด ซึ่งเกี่ยวข้องกับสถานที่ที่มีการเก็บ การใช้ การบรรจุ และการขนส่ง ทั้งที่เคลื่อนที่ได้และไม่ได้
10. **สารเคมีและวัตถุอันตราย** หมายถึง สิ่งที่มีลักษณะอย่างใดอย่างหนึ่ง ดังต่อไปนี้
- 1) วัตถุที่ระเบิดได้ หมายถึง เป็นสารที่เกิดการระเบิดได้ เมื่อได้รับความร้อน เปลวไฟ ถูกกระแทกหรือถูจุดระเบิด เช่น กระสุนปืน ดินระเบิด ดินปืน วัตถุระเบิดพลู แก๊ส ประทัด ดอกไม้ไฟ เป็นต้น
- 2) ก๊าซ หมายถึง ก๊าซที่สามารถติดไฟได้ง่ายเมื่อได้รับความร้อน หรือ เปลวไฟ เช่น ก๊าซหุงต้ม ก๊าซไฮโดรเจน ก๊าซบิวเทน เป็นต้น หรือก๊าซที่มีคุณสมบัติติดไฟหรือสัมผัสกับอากาศแล้ว ทำให้เกิดอันตรายต่อสุขภาพและอาจเสียชีวิตได้ เช่น ก๊าซคลอรีน ก๊าซเอมโมเนีย เป็นต้น หรือ ก๊าซที่ติดไฟได้ในถังความดันสูงเมื่อถูกกระแทกอย่างแรงอาจเกิดระเบิดได้ เช่น ก๊าซคาร์บอนไดออกไซด์ ก๊าซออกซิเจน เป็นต้น
- 3) ของเหลวไวไฟ หมายถึง ของเหลวที่สามารถติดไฟได้ง่ายเมื่อได้รับความร้อนหรือเปลวไฟ เช่น มีทาน เมทิลแอลกอฮอล์ เอทิลแอลกอฮอล์ น้ำมัน เป็นต้น
- 4) ของแข็งไวไฟ หมายถึง สารที่ลุกไหม้ได้ง่ายเมื่อได้รับความร้อนหรือเปลวไฟ เช่น ไม้ขีดไฟ กัมมะถัน ฟอสฟอรัส ดิกไนต์ เป็นต้น หรือสารที่เมื่อถูกน้ำหรือความชื้นจะทำให้เกิดก๊าซไวไฟ ซึ่งลุกไหม้ได้ เช่น แคลเซียมคาร์ไบด์ โซเดียม เป็นต้น
- 5) สารออกซิไดซ์และสารเปอร์ออกไซด์อนินทรีย์ หมายถึง สารที่ตัวเองไม่เกิดการลุกไหม้ แต่ช่วยให้สารอื่นลุกไหม้ได้โดยสะดวกทำให้ก๊าซออกซิเจนออกมา เช่น ปุ๋ยแอมโมเนียมในไตรด่างทับทิม เป็นต้น หรือ สารที่สลายตัวแล้วให้ก๊าซออกซิเจน ซึ่งจะทำให้ตัวเองและสารอื่นเกิดการลุกไหม้ เช่น อะเซทิลเปอร์ออกไซด์ เป็นต้น
- 6) สารมีพิษและสารติดเชื้อโรค หมายถึง สารที่เมื่อกิน สัมผัสกับผิวหนัง หรือสูดดมหายใจรับสารนี้แล้วเป็นอันตรายต่อร่างกายและอาจทำให้เสียชีวิตได้ เช่น ปปรอท ตะกั่ว แคดเมียม ไซยาไนด์ หรือสารที่ปนเปื้อนกับอาหารแล้วกินเข้าไปจะเป็นอันตราย เช่น สารละลายฟอสฟอริก หรือสารติดเชื้อ ได้แก่ เชื้ออหิวาต์ เป็นต้น
- 7) วัตถุที่มีอันตราย หมายถึง วัตถุหรือสารประกอบใด ๆ ที่มีองค์ประกอบส่วนหนึ่ง มีโครงสร้างภายในอะตอมไม่คงตัวและสลายตัวโดยการปลดปล่อยรังสีไอออไนซ์ โดยครึ่งชีวิต 60 เดือน-226 เป็นต้น
- 8) สารกัดกร่อน หมายถึง สารที่มีคุณสมบัติในการทำลายเนื้อเยื่อของร่างกาย เช่น กรด ด่าง เป็นต้น
- 9) สารหรือวัตถุอื่นที่อาจเป็นอันตรายได้ หมายถึง สารที่ไม่ได้จัดอยู่ในประเภทใดใน 8 ประเภทข้างต้น แต่สามารถก่อให้เกิดอันตรายได้ เช่น สารคลอโรฟลูโอโรคาร์บอน (CFC) เป็นต้น

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11. โรคระบาด หมายถึง โรคติดต่อหรือโรคที่ยังไม่ทราบสาเหตุของการเกิดโรคแน่ชัด ซึ่งอาจแพร่ไปสู่ผู้อื่นได้อย่างรวดเร็วและกว้างขวาง หรือมีภาวะของการเกิดโรครุนแรงผิดปกติกว่าที่เคยเป็นมา
12. ศูนย์บัญชาการ เหตุการณ์ (IC : Incident Command) หมายถึง ผู้ว่าราชการจังหวัด (ผู้อำนวยการจังหวัด)
13. ผู้อำนวยการในภาวะฉุกเฉิน (ED : Emergency Director) หมายถึง ผู้สั่งการสูงสุดของโรงงานและเป็นผู้ให้ข้อมูลแก่หน่วยงานที่เข้าร่วมปฏิบัติการ
14. ผู้จัดการ ณ ที่เกิดเหตุ (OC : On-scene Commander) หมายถึง สั่งการ ณ จุดเกิดเหตุ ทำหน้าที่ควบคุมสถานการณ์ และสั่งการ บริเวณที่เกิดเหตุ
15. ผู้ประสานงานของโรงงาน (MC : MUTUAL AID CO-ORDINATOR) หมายถึง ผู้ทำหน้าที่ประสานงานกับหน่วยสนับสนุนจากภายนอก ให้การต้อนรับ แจ้งข้อมูลข่าวสาร และการประสานการปฏิบัติกับกองอำนาจการป้องกันและบรรเทาสาธารณภัยขององค์กรปกครองส่วนท้องถิ่นแห่งที่กองอำนาจการป้องกันและบรรเทาสาธารณภัยขอเข้า หรือ โรงงานข้างเคียง
16. หัวหน้าทีมดับเพลิง (FC : Fire Chief) หมายถึง ผู้ที่ทำหน้าที่เป็นหัวหน้าชุดดับเพลิง ทำหน้าที่ควบคุมบัญชาการ และสั่งการหัวหน้าชุดดับเพลิงต่างๆ ในที่เกิดเหตุ โดยปฏิบัติกรภายใต้คำสั่งการของ OC
17. หัวหน้าชุดดับเพลิง (FL : Fire Leader) หมายถึง ผู้ที่ทำหน้าที่เป็นหัวหน้าพนักงานดับเพลิงทำหน้าที่เป็นผู้ควบคุมพนักงานดับเพลิงโดยรับคำสั่งจาก FC
18. ทีมตอบโต้ภาวะฉุกเฉิน หรือทีมระงับเหตุ (ERT : Emergency Respond Team) หมายถึง ทีมตอบโต้ภาวะฉุกเฉิน หรือทีมระงับเหตุฉุกเฉิน
19. ทีมปฐมพยาบาล (FT : First Aid Team) หมายถึง ผู้ที่ทำหน้าที่การปฐมพยาบาลผู้ที่ได้รับบาดเจ็บหรือได้ผลกระทบจากเหตุฉุกเฉิน
20. ทีมสนับสนุน และทีมอพยพ (ST : Support Team and evacuation team) หมายถึง ผู้ที่ทำหน้าที่ให้การสนับสนุนกับทุกทีมที่เกี่ยวข้องกับการควบคุมเหตุฉุกเฉิน และทำหน้าที่เป็นผู้ที่ไม่เกี่ยวข้องกับการควบคุมเหตุฉุกเฉินอพยพไปยังจุดรวมพลหรือจุดที่ปลอดภัย พร้อมรายงานจำนวนพนักงานที่อพยพทั้งหมดให้กับ ED รับทราบ
21. ทีมจราจร และรักษาความปลอดภัย (TT : Traffic Team) หมายถึง ผู้ที่ทำหน้าที่อำนวยความสะดวกด้านการจราจรรวมถึงการปิดกั้นการจราจรเพื่อไม่ให้ผู้ที่ไม่เกี่ยวข้องเข้าไปยังบริเวณที่เกิดเหตุฉุกเฉิน และรักษาความปลอดภัย
22. ทีมที่ปรึกษา (CT : Consultant Team) หมายถึง ผู้ที่มีความเชี่ยวชาญเฉพาะด้านและสามารถให้การปรึกษาหรือแนะนำเกี่ยวกับการควบคุมเหตุฉุกเฉินให้กับ ED



23. ทีมตัดแยกระบบ (IT : Isolation Team) หมายถึง ผู้ที่ทำหน้าที่ให้การสนับสนุนการตัดแยกระบบไฟฟ้าหรือระบบการทำงานของเครื่องจักรวมถึงการตัดการหมุนเนื่องเชื้อเพลิงที่เป็นของเหลวที่ขนส่งทางท่อโดยการ ปิดวาล์ว, บล็อกวาล์ว (Block valve)
24. ขุมหลบภัย หมายถึง การรวมตัวกันของพนักงานบริษัทที่อยู่ในนิคมอุตสาหกรรมฯ จำนวนมากเพื่อเตรียมพร้อมในการปฏิบัติงานต่างๆ
25. จุดรวมพล (Assembly Point) หมายถึง จุดรวมพลในกรณีที่ต้องอพยพคนจากจุดที่เกิดเพลิงไหม้หรือเหตุฉุกเฉินต่างๆที่ไม่สามารถควบคุมสถานการณ์ได้ ไปยังจุดที่ปลอดภัยที่สุด
26. อัคคีภัย หมายถึง อัคคีภัยอันเกิดจากไฟที่เกิดจากการควบคุมดูแล ทำให้เกิดการติดต่อกันลุกลามไปตามบริเวณที่มีเชื้อเพลิงเกิดการลุกไหม้ต่อเนื่อง
27. วนดับ หมายถึง อัคคีภัยอันเกิดจากพายุลมแรง จนทำให้เกิดความเสียหายแก่อาคารบ้านเรือน ต้นไม้ และสิ่งก่อสร้าง
28. อุทกภัย หมายถึง อัคคีภัยอันเกิดจากน้ำเป็นสาเหตุ อาจเป็นน้ำท่วม น้ำป่า หรืออื่น ๆ โดยปกติอุทกภัยเกิดจากฝนตกหนักต่อเนื่องกันเป็นเวลานาน

4.การปฏิบัติการควบคุมภาวะฉุกเฉิน

- 4.1 กรณีเกิดเหตุเพลิงไหม้ / เกิดการระเบิด, สารเคมีหกรั่วไหล, กรณีรถบรรทุกสารเคมี พลิกคว่ำ, กรณีเกิดเหตุจากระบบท่อส่งผลิตภัณฑ์, ท่อส่งก๊าซ PTT.
กำหนดให้มีการจัดระดับชั้นเหตุการณ์ฉุกเฉินของนิคมอุตสาหกรรมระดับฉาวชอ อีสเทิร์น ชีบอร์ด 2 ไว้ 3 ระดับ ดังนี้

1) เหตุการณ์ผิดปกติ : เหตุการณ์ที่ส่งผลกระทบหรืออาจก่อให้เกิดผลกระทบต่อชุมชนและโรงงานข้างเคียง เนื่องจากกิจกรรมของผู้ประกอบการ หรือเหตุฉุกเฉินที่เกิดขึ้นแล้ว บริษัทหรือหน่วยงานที่เกิดขึ้นนั้นสามารถควบคุมและระงับเหตุฉุกเฉิน ได้ตนเองโดยใช้กำลังคนและอุปกรณ์ที่ตนเองมีอยู่ (รวมถึงการขอความช่วยเหลือจากหน่วยงานที่ทำสัญญาให้ความช่วยเหลือกรณีเกิดเหตุฉุกเฉินไว้)

หมายเหตุ

เป็นระดับที่เกิดขึ้นในนิคมอุตสาหกรรม, โรงงานอุตสาหกรรม/สถานประกอบการ เป็นเหตุฉุกเฉินในโรงงาน หรือตามเส้นทางขนส่ง หรือแนวท่อส่งผลิตภัณฑ์ ซึ่งเจ้าหน้าที่ของ โรงงาน/สถานประกอบการที่เกิดเหตุ หรือโรงงานใกล้เคียงจุดบนเส้นทางที่เกิดอุบัติเหตุจากการขนส่ง หรือผู้ประกอบการต้นเหตุสามารถควบคุมสถานการณ์และระงับเหตุได้ โดยแบ่งประเภท ไว้ ดังนี้

➤ เหตุการณ์ฉุกเฉินที่ตนเอง สามารถควบคุมสถานการณ์และระงับเหตุได้



- พบอุบัติเหตุเกี่ยวกับรถส่วนบุคคล กีดขวางการจราจร/ไม่กีดขวางการจราจร
 - เกิดอุบัติเหตุเกี่ยวกับรถบรรทุกวัตถุอันตรายและผลิตภัณฑ์ฯ ไม่มีสารเคมีรั่วไหล กีดขวางการจราจร/ไม่กีดขวางการจราจร
 - เกิดอุบัติเหตุเกี่ยวกับรถบรรทุกวัตถุอันตรายและผลิตภัณฑ์ฯ มีสารเคมีรั่วไหล กีดขวางการจราจร/ไม่กีดขวางการจราจร
 - เหตุการณ์ผิดปกติอื่น ๆ ที่เกี่ยวข้องกับประเภท เรื่องอุบัติเหตุบนท้องถนน
- การดำเนินงานที่ไม่ใช่การดำเนินงานปกติ สามารถควบคุมสถานการณ์และระงับเหตุได้ เช่น การหยุดปฏิบัติงานฉุกเฉิน (EMERGENCY SHUT DOWN) การหยุดปฏิบัติงานเพื่อซ่อมบำรุงทั้งระบบ (TURNAROUND) การเริ่มปฏิบัติงานระบบ (START UP) ทดสอบระบบ (COMMISSION) การดำเนินงานอื่น ๆ ซึ่งก่อให้เกิดผลกระทบ ดังนี้
- เกิดสิ่งผิดปกติ
 - แสงสว่างจ้าและความร้อน จากเหวี่ยง (Flare)
 - กลิ่น, ฝุ่น ก่อให้เกิดผลกระทบต่อร่างกาย / ภายนอก และก่อความเดือดร้อนรำคาญ
- เหตุฉุกเฉินของโรงงาน สามารถควบคุมสถานการณ์และระงับเหตุได้ เช่น
- หลุดถังแก๊ส, อุทกภัยหรือระเบิด
 - หวั่นไหว ระเบิด ของสารเคมีหรือผลิตภัณฑ์ เช่น ก๊าซพิษ, ก๊าซไวไฟ, ก๊าซเฉื่อยน้ำมันหวั่นไหว เป็นต้น
 - หลุดสารกัมมันตภาพรังสีรั่วไหล
 - เหตุอื่นๆ ที่ทำอันตรายต่อสิ่งแวดล้อมและสุขภาพ
 - หลุดจากการขนส่งทางท่อ และผลกระทบที่มีต่อระบบท่อผลิตภัณฑ์ สามารถควบคุมสถานการณ์และระงับเหตุได้
- 2) เหตุฉุกเฉินระดับ 1 : เหตุฉุกเฉินที่เกิดขึ้นเนื่องจากเหตุผิดปกติหรือเหตุฉุกเฉินที่มีความรุนแรงส่งผลกระทบต่อภายนอกพื้นที่ โดยบริษัทหรือหน่วยงานที่ไม่สามารถควบคุมเหตุการณ์ดังกล่าวได้ ด้วยกำลังคนและอุปกรณ์ของบริษัทหรือหน่วยงานที่เกิดเหตุ ต้องขอความช่วยเหลือจากสำนักงานนิคมฯ และหน่วยงานภายนอกอื่นๆ โดยบริษัทหรือหน่วยงานที่เกิดเหตุฉุกเฉินนั้นแจ้งเรื่องขอความช่วยเหลือจากสำนักงานนิคมฯ ก่อนที่จะขอความช่วยเหลือไปยังหน่วยงานราชการภายนอก
- 3) เหตุฉุกเฉินระดับ 2 : เหตุฉุกเฉินต้องเนื่องจากเหตุฉุกเฉินระดับ 1 หรือเหตุฉุกเฉินที่เกิดขึ้นแล้วมีผลกระทบต่อเนื่องถึงหน่วยงานภายนอกทั้งโรงงานและชุมชนใกล้เคียงหรือส่งผลกระทบต่อสิ่งแวดล้อมอย่าง



รุนแรงเป็นวงกว้างพื้นที่ เกินความสามารถของบริษัทที่เกิดเหตุ และทีมระงับเหตุตามแผนฉุกเฉินของสำนักงานนิคมฯ และหรือบริษัทภายนอกอื่นๆ ที่จะระงับเหตุหรือควบคุมสถานการณ์ไว้ได้ ต้องขอความช่วยเหลือจากกองอำนาจการป้องกันและบรรเทาสาธารณภัยขององค์กรปกครองส่วนท้องถิ่น (อบต.คลองกู่, อบต.เขาคันทรง) และหรือกองอำนาจการป้องกันและบรรเทาสาธารณภัยของจังหวัดชลบุรี เพื่อดำเนินการระงับเหตุหรือควบคุมสถานการณ์ หรืออพยพ (เข้าสู่แผนป้องกันบรรเทาสาธารณภัย จังหวัดชลบุรี พ.ศ. 2553-2561 ระดับ 1 หรือระดับ 2 ตามลำดับ)

- 4.1.1 วิธีปฏิบัติการกรณีเกิดเหตุเพลิงไหม้ / เกิดการระเบิด, สารเคมีหกรั่วไหล, กรณีรถบรรทุกสารเคมี พลิกคว่ำ กรณีเกิดเหตุจากระบบท่อส่งผลิตภัณฑ์, ท่อส่งก๊าซ PTT.
1) เมื่อเกิดเหตุเพลิงไหม้อาคารต่างๆ เช่น อาคารสำนักงาน, อาคารปฏิบัติการ, อาคารเก็บสารเคมี เป็นต้น ให้พนักงาน หรือผู้ที่พบเห็นรีบดำเนินการแจ้งเหตุ ทันทีโดยทางโทรศัพท์ หรือวิทยุสื่อสาร
- 2) เมื่อประกาศภาวะฉุกเฉินให้ผู้ที่มีหน้าที่ในแผนฉุกเฉินปฏิบัติงานตามแผนฉุกเฉินที่วางเอาไว้
- 3) ผู้ที่ไม่มีหน้าที่ในแผนฉุกเฉินให้ไปรวมกันยังจุดที่ปลอดภัยเพื่อสะดวกต่อการนับจำนวนพนักงาน
- 4) ให้เจ้าหน้าที่ควบคุมดูแลอาคารตรวจนับจำนวนพนักงานแล้วรายงานไปยังศูนย์ควบคุมภาวะฉุกเฉิน
- 5) ให้เจ้าหน้าที่ดูแลอาคารพยายามควบคุมเพลิงด้วยอุปกรณ์ดับเพลิงที่มีอยู่ใกล้ที่สุด หรือเท่าที่หาได้ขณะรอเจ้าหน้าที่ดับเพลิง
- 6) เมื่อเจ้าหน้าที่ดับเพลิงได้รับแจ้งเหตุให้หัวหน้าระดับเพลิงและความปลอดภัยนำทีมงานออกตอบโต้ภาวะฉุกเฉิน โดยไปปฏิบัติงานตามแผนปฏิบัติการฉุกเฉิน และระเบียบการปฏิบัติงานการรับแจ้งและรายงานเหตุฉุกเฉิน
- 7) ทำการฟื้นฟูสภาพให้กลับสู่สภาพปกติ โดยเร็วที่สุด (ตามแผนฟื้นฟู)

4.2 กรณีเกิดน้ำท่วม

กำหนดให้มีการจัดระดับชั้นเหตุการณ์ฉุกเฉินกรณี เกิดน้ำท่วมซึ่งเกิดขึ้นภายในนิคมอุตสาหกรรมระดับฉาวชอ อีสเทิร์นชีบอร์ด 2 ไว้ 3 ระดับ ดังนี้

- 1) เหตุการณ์ผิดปกติ : เป็นอุทกภัยภัยขนาดเล็ก ที่เกิดขึ้นกับโรงงาน/สถานประกอบการ หรือนิคมอุตสาหกรรมระดับฉาวชอ อีสเทิร์นชีบอร์ด 2 ซึ่งเจ้าหน้าที่ของ โรงงาน/สถานประกอบการที่เกิดเหตุ หรือนิคมอุตสาหกรรมระดับฉาวชอ อีสเทิร์นชีบอร์ด 2 สามารถควบคุมสถานการณ์และระงับเหตุได้ ด้วยกำลังคนและขีดความสามารถของตนเอง
- 2) ภาวะฉุกเฉินระดับ 1 : เป็นอุทกภัยภัยขนาดเล็ก ที่มีสถานการณ์เกินขีดความสามารถของโรงงาน หรือผู้ประกอบการต้นเหตุ หรือนิคมอุตสาหกรรมระดับฉาวชอ อีสเทิร์นชีบอร์ด 2 ไม่สามารถควบคุม



หรือระดับเหตุได้ ส่งผลกระทบต่อโรงงาน, ผู้ประกอบการ, นิคมอุตสาหกรรมดับเพลิงดับเพลิง อีสเทิร์นซีบอร์ด 2 หรือประชาชนในพื้นที่ของนิคมฯ ต้องขอความช่วยเหลือจากหน่วยงานปกครองส่วนท้องถิ่นแห่งพื้นที่รับผิดชอบ โดยหน่วยงานป้องกันและบรรเทาสาธารณภัยของท้องถิ่นแห่งพื้นที่รับผิดชอบ (องค์การบริหารส่วนตำบลคลองแก้ว, องค์การบริหารส่วนตำบลเขาคันทรง) และกองอำนาจการป้องกันและบรรเทาสาธารณภัยของอำเภอ (อำเภอบ้านบึง, อำเภอศรีราชา) ต้องเข้ามาอำนวยความสะดวก และส่งการระงับเหตุ, ความปลอดภัย หรือการอพยพ โดยสามารถดูแลให้ความช่วยเหลือผู้ได้รับผลกระทบได้

3) ภาวะฉุกเฉินระดับ 2 (ระดับจังหวัด) : เป็นเหตุการณ์ที่ขนาดกลาง เหตุการณ์อาจส่งผลกระทบต่อโรงงาน นิคมอุตสาหกรรมหรือประชาชน ที่อยู่รอบข้างนิคมฯ เกิดขีดความสามารถของหน่วยงานป้องกันและบรรเทาสาธารณภัยของท้องถิ่นแห่งพื้นที่รับผิดชอบ (องค์การบริหารส่วนตำบลคลองแก้ว, องค์การบริหารส่วนตำบลเขาคันทรง) และกองอำนาจการป้องกันและบรรเทาสาธารณภัยของอำเภอ (อำเภอบ้านบึง, ศรีราชา) ไม่สามารถระงับเหตุและควบคุมสถานการณ์ได้ จะต้องขอความช่วยเหลือจากกองอำนาจการป้องกันและบรรเทาสาธารณภัยของจังหวัด (จังหวัดชลบุรี และจังหวัดระยอง) รวมทั้งหน่วยสนับสนุนจากหน่วยงานภายนอกอื่น ๆ

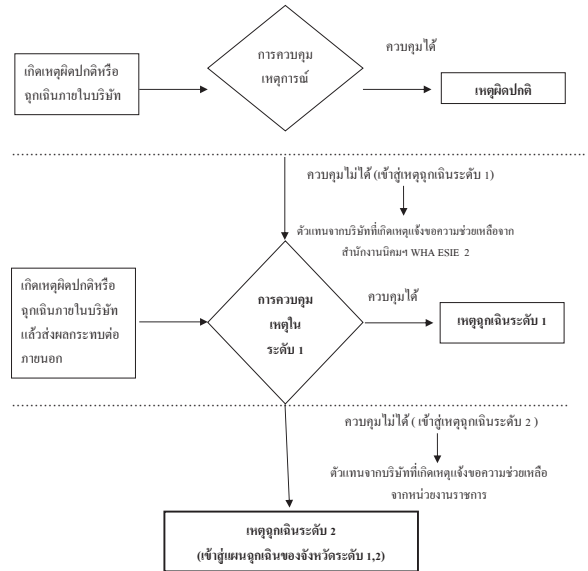
4.2.1 วิธีปฏิบัติกรณีเกิดน้ำท่วมภายในนิคมฯ

- 1) ให้ผู้พบเห็น หรือรับแจ้งเหตุแจ้งหน่วยงาน ดับเพลิงและความปลอดภัย รับทราบทันที
- 2) ให้พนักงานผู้รับแจ้งเหตุปฏิบัติตามระเบียบการปฏิบัติงานการรับแจ้ง และรายงานเหตุฉุกเฉิน
- 3) ให้หัวหน้าส่วนดับเพลิงและความปลอดภัยและหัวหน้าระดับดับเพลิงพร้อมเจ้าหน้าที่ส่วนงานดับเพลิงและความปลอดภัย และเจ้าหน้าที่ ปลูก, จัดเตรียมอุปกรณ์อำนวยความสะดวกด้านการจราจร และประสานงานกับเจ้าหน้าที่ตำรวจในการดูแลความเรียบร้อยในพื้นที่ที่เกิดเหตุ
- 4) ผู้จัดการฝ่ายปฏิบัติการ, หัวหน้าส่วนดับเพลิงและความปลอดภัย, หัวหน้าส่วนงานผลิตน้ำประปา, หัวหน้างานส่วนงานซ่อมบำรุงทั่วไป และหัวหน้าระดับดับเพลิงประเมินสถานการณ์ และหาทางระบายน้ำออกจากพื้นที่โดยเร็วที่สุด
- 5) ผู้จัดการฝ่ายปฏิบัติการ, หัวหน้าส่วนดับเพลิงและความปลอดภัย, หัวหน้าส่วนงานผลิตน้ำประปา จัดเตรียมเครื่องสูบน้ำ และประสานงานกับผู้รับเหมาและบรรณารักษ์น้ำฝนเพื่อเปิดทางน้ำให้สามารถระบายได้เร็วขึ้น
- 6) หัวหน้าส่วนดับเพลิงและความปลอดภัย จัดเตรียมกระสอบทรายไว้สำหรับปิดกั้นทางน้ำ หรือเพื่อป้องกันพื้นที่บางส่วนที่ไม่สามารถให้น้ำท่วมถึงได้



- 7) ผู้จัดการฝ่ายปฏิบัติการ, หัวหน้าส่วนดับเพลิงและความปลอดภัย, หัวหน้าส่วน งานผลิตน้ำ ประปา ประสานงานกับโรงงานผู้ประกอบการว่ามีที่ต้องการความช่วยเหลือ เช่น อพยพ, รถพยาบาล, เครื่องสูบน้ำ, กระสอบทราย
- 8) เมื่อน้ำแห้งให้ หัวหน้างานส่วนงานซ่อมบำรุงทั่วไป ประสานงานกับผู้รับเหมาดูแลความสะอาด ทำความสะอาดพื้นที่ที่เกิดเหตุทันที
- 9) ทำการฟื้นฟูพื้นที่ที่เกิดเหตุให้กลับเข้าสู่สภาพปกติโดยเร็วที่สุด (ตามแผนฟื้นฟู)

แผนผังการจักระดับเหตุฉุกเฉินของนิคมอุตสาหกรรมดับเพลิงดับเพลิง อีสเทิร์นซีบอร์ด 2



5. กรณีเกิดเหตุเพลิงไหม้ / เกิดการระเบิด, สารเคมีหกรั่วไหล, กรณีรถบรรทุกสารเคมี พลิกคว่ำ, กรณีเกิดเหตุจากระบบท่อส่งผลิตภัณฑ์, ท่อส่งก๊าซ PTT.

กำหนดให้มีการจัดระดับชั้นเหตุการณ์ฉุกเฉินกรณี กรณีเกิดเหตุเพลิงไหม้ / เกิดการระเบิด, กรณีรถบรรทุกสารเคมี พลิกคว่ำ, กรณีเกิดเหตุจากระบบท่อส่งผลิตภัณฑ์, ท่อส่งก๊าซ PTT. ที่เกิดขึ้นภายในนิคมอุตสาหกรรมดับเพลิงดับเพลิง อีสเทิร์นซีบอร์ด 2 ไว้ 3 ระดับ ดังนี้

- 5.1 เหตุการณ์ผิดปกติ : เหตุการณ์ที่ส่งผลกระทบต่อหรืออาจก่อให้เกิดผลกระทบต่อชุมชนและโรงงานข้างเคียง เนื่องจากกิจกรรมของผู้ประกอบการ หรือเหตุฉุกเฉินที่เกิดขึ้นแล้ว บริษัทหรือหน่วยงานที่เกิดขึ้นนั้นสามารถควบคุมและระงับเหตุฉุกเฉิน ได้ตนเองโดยใช้กำลังคนและอุปกรณ์ที่ตนเองมีอยู่ (รวมถึงการขอความช่วยเหลือจากหน่วยงานที่เข้าสัญญาให้ความช่วยเหลือกรณีเกิดเหตุฉุกเฉินไว้)

หมายเหตุ

เป็นระดับที่เกิดขึ้นในนิคมอุตสาหกรรม, โรงงานอุตสาหกรรม/สถานประกอบการ เป็นเหตุฉุกเฉินในโรงงาน หรือตามเส้นทางขนส่ง หรือแนวท่อส่งผลิตภัณฑ์ ซึ่งเจ้าหน้าที่ของโรงงาน/สถานประกอบการที่เกิดเหตุ หรือโรงงานใกล้เคียงจุดบนเส้นทางที่เกิดอุบัติเหตุจากกระบวนการหรือผู้ประกอบการต้นเหตุ สามารถควบคุมสถานการณ์และระงับเหตุได้ โดยแบ่งประเภท ไว้ดังนี้

- 1) เรื่องอุบัติเหตุบนท้องถนน สามารถควบคุมสถานการณ์และระงับเหตุได้
 - พบอุบัติเหตุเกี่ยวกับรถส่วนบุคคล กีดขวางการจราจร/ไม่กีดขวางการจราจร
 - เกิดอุบัติเหตุเกี่ยวกับรถบรรทุกฉุกเฉินและผลิตภัณฑ์ ไม่มีสารเคมีรั่วไหล กีดขวางการจราจร/ไม่กีดขวางการจราจร
 - เกิดอุบัติเหตุเกี่ยวกับรถบรรทุกฉุกเฉินและผลิตภัณฑ์ มีสารเคมีรั่วไหล กีดขวางการจราจร/ไม่กีดขวางการจราจร
 - เหตุการณ์ผิดปกติอื่น ๆ ที่เกี่ยวข้องกับประเภท เรื่องอุบัติเหตุบนท้องถนน
- 2) การดำเนินงานที่ไม่ใช้การดำเนินงานปกติ สามารถควบคุมสถานการณ์และระงับเหตุได้ เช่น การหยุดปฏิบัติงานฉุกเฉิน (EMERGENCY SHUT DOWN) การหยุดปฏิบัติงานเพื่อซ่อมบำรุงทั้งระบบ (TURNAROUND) การเริ่มปฏิบัติงานระบบ (START UP) ทดสอบระบบ (COMMISSION) การดำเนินงานอื่น ๆ ซึ่งก่อให้เกิดผลกระทบ ดังนี้
 - เกิดเสียงดังผิดปกติ
 - แสงสว่างจ้าและความร้อน จากท่อเผา (Flare)



- กลิ่น, ฝุ่น ก่อให้เกิดผลกระทบต่อทั้งภายใน / ภายนอก และก่อความเดือดร้อนรำคาญ
- 3) เหตุฉุกเฉินของโรงงาน สามารถควบคุมสถานการณ์และระงับเหตุได้ เช่น
- เหตุอัคคีภัย, อุทกภัย, वादภัยหรือระเบิด
 - เหตุรั่วไหล ระเหย ของสารเคมีหรือผลิตภัณฑ์ เช่น ก๊าซพิษ, ก๊าซไวไฟ, ก๊าซเฉื่อย, น้ำมันหกรั่วไหล เป็นต้น
 - เหตุสารเคมีปนเปื้อนทางสิ่งแวดล้อมและสุขภาพ
 - เหตุอื่นๆ ที่ทำอันตรายต่อสิ่งแวดล้อมและสุขภาพ
 - เหตุจากการขนส่งทางท่อ และผลกระทบที่มีต่อระบบท่อ ผลิตภัณฑ์ สามารถควบคุมสถานการณ์และระงับเหตุได้

5.2 เหตุฉุกเฉินระดับ 1 : เหตุฉุกเฉินที่เกิดขึ้นเนื่องจากเหตุผิดปกติหรือเหตุฉุกเฉินที่มีความรุนแรงส่งผลกระทบต่อภายนอกพื้นที่ โดยบริษัทหรือหน่วยงานที่เกิดเหตุไม่สามารถควบคุมเหตุการณ์ดังกล่าวได้ ด้วยกำลังคนและอุปกรณ์ของบริษัทหรือหน่วยงานที่เกิดเหตุ ต้องขอความช่วยเหลือจากสำนักงานนิคมฯ และหน่วยงานภายนอกอื่นๆ โดยบริษัทหรือหน่วยงานที่เกิดเหตุฉุกเฉินนั้น แจ้งร้องขอความช่วยเหลือจากสำนักงานนิคมฯ ก่อนที่จะขอความช่วยเหลือไปยังหน่วยงานราชการภายนอก

5.3 เหตุฉุกเฉินระดับ 2 : เหตุฉุกเฉินเนื่องจากเหตุฉุกเฉินระดับ 1 หรือเหตุฉุกเฉินที่เกิดขึ้นแล้วมีผลกระทบต่อเมืองโรงงานภายนอกทั้ง โรงงานและชุมชนใกล้เคียงหรือส่งผลกระทบต่อสิ่งแวดล้อมอย่างรุนแรงเป็นวงกว้างพื้นที่ เกินความสามารถของพื้นที่เกิดเหตุ และทีมระงับเหตุตามแผนฉุกเฉินของสำนักงานนิคมฯ และหรือบริษัทภายนอกอื่นๆ ที่จะระงับเหตุหรือควบคุมสถานการณ์ไว้ได้ ต้องขอความช่วยเหลือจากกองอำนาจการป้องกันและบรรเทาสาธารณภัยองค์กรปกครองส่วนท้องถิ่น (องค์การบริหารส่วนตำบลคลองแก้ว, องค์การบริหารส่วนตำบลเขาคันทรง) และหรือกองอำนาจการป้องกันและบรรเทาสาธารณภัยและจังหวัดชลบุรี เพื่อดำเนินการระงับเหตุหรือควบคุมสถานการณ์ หรืออพยพ

วิธีปฏิบัติกรณีเกิดเหตุเพลิงไหม้ / เกิดการระเบิด, สารเคมีหกรั่วไหล, กรณีรถบรรทุกสารเคมี พลิกคว่ำ, กรณีเกิดเหตุจากระบบท่อส่งผลิตภัณฑ์, ท่อส่งก๊าซ PTT.

1. เมื่อเกิดเหตุเพลิงไหม้อาคารต่างๆ เช่น อาคารสำนักงาน, อาคารปฏิบัติการ, อาคารเก็บสารเคมี เป็นต้น ให้พนักงาน หรือผู้ที่พบเห็นรีบดำเนินการแจ้งเหตุ ทันที โดยทางโทรศัพท์ หรือวิทยุสื่อสาร



- เมื่อประกาศภาวะฉุกเฉินให้ผู้ที่มีหน้าที่ในแผนฉุกเฉินปฏิบัติตามแผนฉุกเฉินที่วางเอาไว้
- ผู้ที่ไม่มีหน้าที่ในแผนฉุกเฉินให้ไปรวมกันยังจุดที่ปลอดภัยเพื่อสะดวกต่อการนับจำนวนพนักงาน
- ให้เจ้าหน้าที่ควบคุมดูแลอาคารตรวจนับจำนวนพนักงานแล้วรายงานไปยังศูนย์ควบคุมภาวะฉุกเฉิน
- ให้เจ้าหน้าที่ดูแลอาคารพยายามควบคุมเพลิงด้วยอุปกรณ์ดับเพลิงที่มีอยู่ใกล้เคียง หรือเท่าที่หาได้ ขอระงับเจ้าหน้าที่ดับเพลิง
- เมื่อเจ้าหน้าที่ดับเพลิงได้รับแจ้งเหตุให้หัวหน้าระดับเพลิงและความปลอดภัยน้ำที่งานออกตอบโต้ภาวะฉุกเฉินโดยให้ปฏิบัติตามแผนปฏิบัติฉุกเฉิน และระเบียบการปฏิบัติงานการรับแจ้งและรายงานเหตุฉุกเฉิน
- ทำการฟื้นฟูสภาพให้กลับสู่สภาพปกติ โดยเร็วที่สุด (ตามแผนฟื้นฟู)

6. กรณีเกิดน้ำท่วม

กำหนดให้มีการจัดระดับชั้นเหตุการณ์ฉุกเฉิน กรณีเกิดน้ำท่วมซึ่งเกิดขึ้นภายในนิคมอุตสาหกรรมระดับlixo อีสเทิร์นซีบอร์ด 2 ไว้ 3 ระดับ ดังนี้

6.1 เหตุการณ์ผิดปกติ

เป็นอุทกภัยกับขนาดเล็ก ที่เกิดขึ้นกับโรงงาน/สถานประกอบการ หรือนิคมอุตสาหกรรมระดับlixo อีสเทิร์นซีบอร์ด 2 ซึ่งเจ้าหน้าที่ของโรงงาน/สถานประกอบการที่เกิดเหตุ หรือนิคมอุตสาหกรรมระดับlixo อีสเทิร์นซีบอร์ด 2 สามารถควบคุมสถานการณ์และระงับเหตุได้ด้วยการแจ้งเตือน และมีความสามารถของตนเอง

6.2 ภาวะฉุกเฉิน ระดับ 1

เป็นอุทกภัยกับขนาดเล็ก ที่มีสถานการณ์เกินขีดความสามารถของโรงงาน หรือผู้ประกอบการต้นเหตุ หรือนิคมอุตสาหกรรมระดับlixo อีสเทิร์นซีบอร์ด 2 ไม่สามารถควบคุมหรือระงับเหตุได้ส่งผลกระทบต่อโรงงาน, ผู้ประกอบการ, นิคมอุตสาหกรรมระดับlixo อีสเทิร์นซีบอร์ด 2 หรือประชาชนในพื้นที่ของนิคมฯ ต้องขอความช่วยเหลือจากหน่วยงานปกครองส่วนท้องถิ่นแห่งพื้นที่รับผิดชอบ โดยหน่วยงานป้องกันและบรรเทาสาธารณภัยของท้องถิ่นแห่งพื้นที่รับผิดชอบ (องค์การบริหารส่วนตำบลคลองแก้ว, องค์การบริหารส่วนตำบลเขาคันทรง) และกองอำนาจการป้องกันและบรรเทาสาธารณภัยอำเภอ (อำเภอบ้านโป่ง, อำเภอศรีราชา) ต้องเข้ามาอำนวยความสะดวกและสั่งการระงับเหตุ, ควบคุมสถานการณ์ หรือการอพยพ โดยสามารถดูแลให้ความช่วยเหลือผู้ได้รับผลกระทบได้



6.3 ภาวะฉุกเฉินระดับ 2

เป็นอุทกภัยกับที่ขนาดกลาง เหตุการณ์ขยายตัวลุกลามส่งผลกระทบต่อโรงงาน นิคมอุตสาหกรรมหรือประชาชน ที่ผู้รอบข้างนิคมฯ เกินขีดความสามารถของหน่วยงานป้องกันและบรรเทาสาธารณภัยของท้องถิ่นแห่งพื้นที่รับผิดชอบ (องค์การบริหารส่วนตำบลคลองแก้ว, องค์การบริหารส่วนตำบลเขาคันทรง) และกองอำนาจการป้องกันและบรรเทาสาธารณภัยอำเภอ (อำเภอบ้านโป่ง, อำเภอศรีราชา) ไม่สามารถระงับภัยและควบคุมสถานการณ์ได้ จะต้องขอความช่วยเหลือจาก กองอำนาจการป้องกันภัยและบรรเทาสาธารณภัยจังหวัด (จังหวัดชลบุรี) รวมทั้งหน่วยงานสนับสนุนจากหน่วยงานภายนอกระดับอื่น ๆ

วิธีปฏิบัติกรณีเกิดน้ำท่วมภายในนิคมฯ

- ให้ผู้พบเห็น หรือรับแจ้งเหตุแจ้งหน่วยงาน ดับเพลิงและความปลอดภัย รับทราบทันที
- ให้พนักงานผู้รับแจ้งเหตุปฏิบัติตามระเบียบการปฏิบัติงานการรับแจ้ง และรายงานเหตุฉุกเฉิน
- ให้หัวหน้าส่วนดับเพลิงและความปลอดภัย และหัวหน้าระดับเพลิง พร้อมเจ้าหน้าที่ส่วนงานดับเพลิงและความปลอดภัย และเจ้าหน้าที่ ปรก, จัดเตรียมอุปกรณ์อำนวยความสะดวกด้านการจราจร และประสานงานกับเจ้าหน้าที่ตำรวจในการดูแลความสงบเรียบร้อยในพื้นที่เกิดเหตุ
- ผู้จัดการฝ่ายปฏิบัติการ, หัวหน้าส่วนดับเพลิงและความปลอดภัย, หัวหน้าส่วน งานผลิต น้ำประปา, หัวหน้างานส่วนงานซ่อมบำรุงทั่วไป และหัวหน้าระดับเพลิงประเมินสถานการณ์ และหาทางระบายน้ำออกจากพื้นที่โดยเร็วที่สุด
- ผู้จัดการฝ่ายปฏิบัติการ, หัวหน้าส่วนดับเพลิงและความปลอดภัย, หัวหน้าส่วนงานผลิต น้ำประปา จัดเตรียมเครื่องสูบน้ำ และประสานงานกับรัฐบาลและระบบระบายน้ำพื้นที่เปิดทางน้ำให้สามารถระบายได้เร็วขึ้น
- หัวหน้าส่วนดับเพลิงและความปลอดภัย จัดเตรียมกระสอบทรายไว้สำหรับ ปิดกั้นทางน้ำหรือเพื่อป้องกันพื้นที่บางส่วนที่ไม่สามารถให้น้ำท่วมถึงได้
- ผู้จัดการฝ่ายปฏิบัติการ, หัวหน้าส่วนดับเพลิงและความปลอดภัย, หัวหน้าส่วน งานผลิต น้ำประปา ประสานงานกับ โรงงานผู้ประกอบการ ว่ามีได้ต้องการความช่วยเหลือ เช่น อพยพ, รถพยาบาล, เครื่องสูบน้ำ, กระสอบทราย



- เมื่อน้ำแห้งให้ หัวหน้างานส่วนงานซ่อมบำรุงทั่วไป ประสานงานกับผู้รับเหมาดูแลความสะอาด ทำความสะอาดพื้นที่เกิดเหตุทันที
 - ทำการฟื้นฟูพื้นที่ที่เกิดเหตุให้กลับเข้าสู่สภาพปกติโดยเร็วที่สุด (ตามแผนฟื้นฟู)
- #### 7. กรณีเกิดการชุมนุมประท้วง
- นิคมอุตสาหกรรมระดับlixo อีสเทิร์นซีบอร์ด 2 กำหนดให้มีการจัดระดับภาวะฉุกเฉินไว้ 3 ระดับ ดังนี้

7.1 เหตุผิดปกติ

เป็นการชุมนุมประท้วงฯ ภายในโรงงานอุตสาหกรรม/สถานประกอบการ ซึ่งเจ้าหน้าที่ของโรงงาน/สถานประกอบการที่เกิดเหตุ สามารถควบคุมสถานการณ์และสามารถเจรจา หรือระงับการชุมนุมประท้วงและการจลาจล ได้

7.2 ภาวะฉุกเฉินระดับ 1

เป็นการชุมนุมประท้วงและการจลาจล ที่มีสถานการณ์เกินขีดความสามารถของเจ้าหน้าที่ของโรงงาน/สถานประกอบการที่เกิดเหตุ หรือของนิคมอุตสาหกรรมระดับlixo อีสเทิร์นซีบอร์ด 2 ไม่เพียงพอจำเป็นต้องร้องขอการสนับสนุนจากหน่วยงานป้องกันและบรรเทาสาธารณภัยของท้องถิ่น (เทศบาล/อบค.)

7.3 ภาวะฉุกเฉินระดับ 2

เป็นการชุมนุมประท้วงและการจลาจล ที่มีสถานการณ์ขยายตัวลุกลาม จนเกินขีดความสามารถของกองอำนาจการป้องกันภัยและบรรเทาสาธารณภัย องค์การปกครองส่วนท้องถิ่นแห่งพื้นที่ (องค์การบริหารส่วนตำบลคลองแก้ว, องค์การบริหารส่วนตำบลเขาคันทรง) และกองอำนาจการป้องกันและบรรเทาสาธารณภัยอำเภอ (อำเภอบ้านโป่ง, อำเภอศรีราชา) ไม่สามารถระงับภัยและควบคุมสถานการณ์ได้ จะต้องขอความช่วยเหลือจาก กองอำนาจการป้องกันภัยและบรรเทาสาธารณภัยจังหวัด (จังหวัดชลบุรี) รวมทั้งหน่วยงานสนับสนุนจากหน่วยงานภายนอกระดับอื่น ๆ

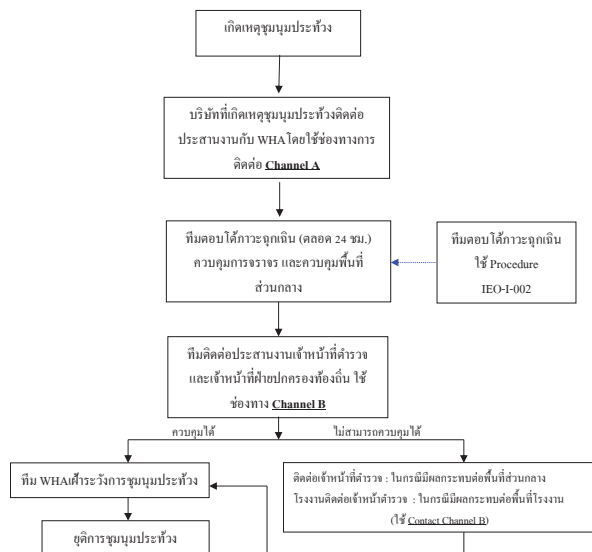
แผนการปฏิบัติงานในกรณีเกิดเหตุชุมนุมประท้วง

- ให้ผู้พบเห็นหรือได้รับแจ้งจากโรงงานผู้ประกอบการภายในนิคมฯ ว่ามีเหตุชุมนุมประท้วงหน้าบริษัท
- ให้พนักงานผู้รับแจ้งเหตุปฏิบัติตามระเบียบการปฏิบัติงานการรับแจ้ง และรายงานเหตุฉุกเฉิน (IEO-P-008 F1)



- ให้ OMF และหัวหน้าระดับเพลิง พร้อมทั้งเจ้าหน้าที่ส่วนงานดับเพลิงและความปลอดภัย และเจ้าหน้าที่ ปรก, จัดเตรียมอุปกรณ์อำนวยความสะดวกด้านการจราจร และประสานงานกับเจ้าหน้าที่ตำรวจเพื่อดูแลความสงบเรียบร้อยรอบๆ บริเวณที่มีการชุมนุมประท้วง
- OMS, SHE, OMF ทำการเจรจากับแกนนำผู้ชุมนุมประท้วงเพื่อแจ้งให้ทราบถึงการห้ามทำกรสิ่งใดสิ่งหนึ่งบนถนนที่อาจจะเป็นการกีดขวางการจราจรบนถนนรวมถึงการตั้งเต็นท์เพื่อบังแดดบังลม หรือเป็นที่พักอาศัยชั่วคราว และแจ้งให้ EOD รับทราบถึงสถานการณ์
- OMS, SHE, OMF ประสานงานกับ HR ของบริษัทที่ทำการชุมนุมประท้วงเรียกพนักงานที่ไม่มีส่วนเกี่ยวข้องกับการประท้วงกลับเข้าบริษัท เพื่อทำการงานแทนพนักงานในกลุ่มที่มีใช้พนักงานของบริษัทให้ชัดเจน และแจ้งความดำเนินคดีกับผู้ที่ไม่ปฏิบัติตามข้อ 4 หรือก่อเหตุความรุนแรงที่ทำให้เกิดความเสียหายต่อชีวิตและทรัพย์สินของนิคมฯ
- OMS, SHE, OMF ประสานงานกับ HR ของบริษัทที่ทำการชุมนุมประท้วงในกรณีที่ต้องการความช่วยเหลือจากหน่วยงานราชการ ในกรณีที่เกิดความรุนแรงหรือไม่ได้รับความปลอดภัยที่อาจจะเกิดขึ้นโดยการกระทำของผู้ชุมนุมประท้วง โดยให้ HR หรือผู้ที่ได้รับมอบหมายจากบริษัททำการแจ้งความกับเจ้าหน้าที่ตำรวจเพื่อดำเนินคดีกับผู้ชุมนุมประท้วง
- OMF, หัวหน้าระดับเพลิง และสายตรวจนิคมฯ จะต้องคอยสอดส่องดูแลความสงบเรียบร้อยร่วมกันเจ้าหน้าที่ตำรวจที่ประจำอยู่บริเวณรอบๆ บริษัทที่มีการชุมนุมประท้วง
- OMS, SHE, OMF ประสานงานกับ HR และแกนนำของผู้ชุมนุมประท้วง ของบริษัทที่ทำการชุมนุมประท้วงเพื่อขอทราบความคิดเห็นทั้งภายในและภายนอกบริษัทเพื่อรายงานให้ VP และผู้ที่เกี่ยวข้องรับทราบอย่างต่อเนื่อง
- เมื่อทั้งสองฝ่ายบรรลุข้อตกลง และเข้าเหตุการณ์เข้าสู่ภาวะปกติ OMF หัวหน้าระดับเพลิง จะต้องตรวจสอบความเสียหายที่เกิดขึ้นกับพื้นที่ ที่เป็นส่วนกลางแล้วรายงานให้ผู้ที่เกี่ยวข้องรับทราบและดำเนินการปรับปรุงแก้ไขให้อยู่ในสภาพเดิม

แผนผังการตอบโต้ภาวะฉุกเฉินกรณีเกิดการชุมนุมประท้วงของพนักงานบริษัทภายในนิคมฯ



เบอร์โทรศัพท์ที่ใช้ในการติดต่อสื่อสาร

Contact Channel list A (Ranking by priority)		Contact Channel list B (Ranking by priority)	
1.K. Piyasak N.(Site Manager)	081 527 7825	1.Khlong-kiew Police Station	038-201300
2. K. Piyatida T. (Environment Manager)	087 -9191771	2.Bowin Police Station	038-067313
3. K. Chaiyawut K. (Safety Health and Environment)	065 - 7291375	3. WHA ESIE2 Office	033-005228-9
4. K. Sornkhan A. (Safety Supervisor)	080 -0966113	4.Banbung District Office	038-750653
5. Emergency Response Center (WHA ESIE2) (Thai Language Only)		5. Sriracha District Office	038-311020
033-005019-20		6. IEAT Director	083-9456993

เอกสารฉบับนี้ เริ่มใช้วันที่ 1 มกราคม 2567 ถึง วันที่ 31 ธันวาคม 2567

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5.การป้องกันและควบคุมภัยจากโรคติดต่อและโรคระบาด

กระบวนการปฏิบัติงานตามแผนป้องกันและควบคุมโรคติดต่อหรือโรคระบาด แบ่งเป็น 3 ระยะ คือ

5.1 การปฏิบัติก่อนเกิดโรคติดต่อหรือโรคระบาด ให้ดำเนินการต่างๆ เพื่อป้องกันและเตรียมการเผชิญเหตุการณ์โรคติดต่อหรือโรคระบาดไว้ล่วงหน้าโดยกำหนดให้มีมาตรการทางกการตรวจสอบ อาทิ

- เสริมความพร้อมด้านบุคลากร, เครื่องมือที่จำเป็นต่อการควบคุมโรคระบาดหรือ โรคติดต่อ
- ติดตามข่าวสารเกี่ยวกับ โรคติดต่อและโรคระบาดทั้งในประเทศและต่างประเทศ
- ประเมินความเสี่ยงของการเกิดโรคติดต่อหรือโรคระบาด พร้อมทั้งกำหนดแนวทางการป้องกันและแก้ไข

- การตรวจสอบพื้นที่จุดเสี่ยงต่างๆ ในนิคมฯและ อุปกรณ์สื่อสารของนิคมฯ ให้พร้อมใช้งานตลอดเวลา

5.2 การปฏิบัติระหว่างเกิดโรคติดต่อหรือโรคระบาด เพื่อให้การปฏิบัติเมื่อเกิดภัยเป็นไปอย่างมีประสิทธิภาพและประสิทธิผล ให้กำหนดแนวปฏิบัติระหว่างเกิดโรคติดต่อหรือโรคระบาด ตามแนวปฏิบัติของกระทรวงสาธารณสุข โดยมีแนวทางดังนี้

- จัดให้มีการทำงานสะอาดสถานที่ทำงานอย่างสม่ำเสมอและถูกสุขอนามัย โดยเฉพาะในบริเวณพื้นที่ที่มีการสัมผัส เช่น ที่จับประตู, ลูกบิด, โถ้, เก้าอี้, รวมถึงอุปกรณ์ต่างๆ เช่น โทรศัพท์, ลิฟต์รถ ด้วยความยากง่ายอย่างสม่ำเสมอ
- ส่งเสริมให้พนักงานหรือผู้มาติดต่อ สังเกตความสะอาดมืออย่างสม่ำเสมอ โดยจัดหาสบู่หรือเจลล้างมือวางไว้ในสถานที่ทำงานอย่างเพียงพอและประชาสัมพันธ์ให้ทำการล้างมือสม่ำเสมอ
- ส่งเสริมให้พนักงานหรือผู้มาติดต่อมีการป้องกันส่วนบุคคลแบบทางเดินหายใจ โดยจัดหาหน้ากากอนามัยไว้ให้อย่างเพียงพอและประชาสัมพันธ์ให้มีการสวมใส่
- จัดบุคลากรและเครื่องมือ ทำการคัดกรองพนักงานและผู้มาติดต่อ ด้านหน้าสำนักงาน ก่อนเข้าอาคารสำนักงานตลอดเวลา (ตามแผนผัง การคัดกรองและโรคติดต่อและโรคระบาดและกรออกแบบฟอร์ม สำหรับผู้มาติดต่อ)
- หากพบพนักงาน/ผู้มาติดต่อที่เข้าข่ายและความเสี่ยงต่อการติดเชื้อ (ตามนิยามของกระทรวงสาธารณสุข) ให้ทำการแจ้งหน่วย หัวหน้างาน/**HRM** รับทราบทันที และ หัวหน้างาน/**HRM** สอบถามรายละเอียดตามแบบสอบถามมาตรฐาน และให้ไปพบแพทย์ในสถานพยาบาลทันที พร้อมติดตามผลเป็นระยะๆ และแจ้งให้พนักงาน/ผู้มาติดต่อปฏิบัติตามคำแนะนำของกระทรวงสาธารณสุข อย่างเคร่งครัด
- ปกป้องสำนักงานและจัดทีมเจ้าหน้าที่มาช่วยเช็ดพื้นที่

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5.4 การปฏิบัติหลังเกิดโรคติดต่อหรือโรคระบาด เป็นการดำเนินการต่างๆ เพื่อสำรวจรวบรวมข้อมูล ความเสียหายที่เกิดขึ้นและฟื้นฟู/ปรับปรุง/แก้ไขพื้นที่ที่ได้รับผลกระทบให้กลับคืนสู่สภาพเดิม หรือดีกว่าเดิมโดยเร็วที่สุด

6. **แนวทางการสื่อสาร (Communication)** กำหนดให้มีการสื่อสารตามรูปแบบ ช่องทางและคลื่นความถี่วิทยุ
สื่อสารสำหรับกรณีเกิดเหตุการณ์ผิดปกติ การระงับเหตุฉุกเฉิน ดังนี้

6.1 การแจ้งเหตุจากบริษัทที่เกิดเหตุ

เมื่อมีเหตุผิดปกติหรือเหตุฉุกเฉินที่อาจส่งผลกระทบต่อหน่วยงานภายนอกและสิ่งแวดล้อม ให้
บริษัทหรือหน่วยงานที่เกิดเหตุแจ้งหน่วยงานที่เกี่ยวข้องตามที่ระบุไว้ในแผนปฏิบัติการภาวะฉุกเฉิน

นิคมอุตสาหกรรมดับบลิวเอชเอ อิสเทิร์นชูปอร์ต 2 ดังนี้

พื้นที่ที่เกิดเหตุการณ์ผิดปกติหรือเหตุฉุกเฉินให้แจ้ง ศูนย์ควบคุมภาวะฉุกเฉินนิคมอุตสาหกรรม
ดับเพลิงอาชีว อีสเทิร์นซีบอร์ด 2 เพื่อทราบทันที หรือแจ้งขอความช่วยเหลือทางหมายเลขโทรศัพท์

033-005019-20 หรือทางวิทยุสื่อสาร Citizens band (CB) ช่อง 22 หรือคลื่นความถี่ 245.2625 MHz

1)แข่งขันทั้งเชิงที่อาจได้รับผลกระทบจากการเกิดเหตุการณ์ผิดปกติหรือเหตุฉุกเฉินตามลำดับความสำคัญ

2)แรงงานป้องกันบรรเทาสาธารณภัยภัยอำเภอบ้านบึง เช่น อบต.คลองแก้ว,อบต.เขาคันทรงเป็นต้น

3)แจ้งโรงพยาบาลท้องถิ่นที่อยู่ใกล้กับบริษัทที่เกิดเหตุ

6.2 การแจ้งกรณีที่มีการอพยพออกนอกบริษัท

- 1) ให้บริษัทที่เกิดเหตุหรือบริษัทที่ได้รับผลกระทบที่จำเป็นต้องอพยพขอให้ปฏิบัติงานดังนี้
- 2) กรณีทำการอพยพได้เอง ขอให้บริษัทแจ้งมายังศูนย์ควบคุมภาวะฉุกเฉินนิคมอุตสาหกรรม เพื่อรับทราบสถานการณ์

3)กรณีที่ร้องขอความช่วยเหลือในการดำเนินการอพยพ ให้แจ้งขอความช่วยเหลือที่ ศูนย์ควบคุม ภาวะฉุกเฉินนิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นฮิबरด 2 เพื่อประสานงานดำเนินการ

ช่วยเหลือการอพยพของพนักงานบริษัทที่เกิดเหตุหรือบริษัทที่ได้รับผลกระทบจากเหตุการณ์
ผิดปกติหรือเหตุฉุกเฉิน

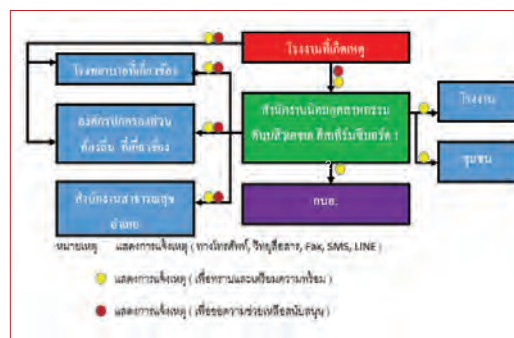
6.3 กรณีที่มีการซ่อมแซมฉุกเฉิน

ให้บริษัทที่จะทำการซื้อแผนฉุกเฉินทำหนังสือแจ้งที่สำนักงานนิคมอุตสาหกรรมดับบลิวเอช เอ อินทรีย์ชลบุรี 2 สำหรับการประสานงาน และแจ้งบริษัทข้างเคียงที่ขอรับทราบ

เอกสารฉบับนี้ เริ่มใช้วันที่ 1 มกราคม 2567 ถึง วันที่ 31 ธันวาคม 2567

หน้า 19/39

แผนผังการสื่อสารและประสานงานในพื้นที่ที่กลุ่มอุตสาหกรรมฉบับลิวเอชเอ อีสเทิร์นซีบอร์ด 2
(กรณีโรคติดต่อหรือโรคระบาด)

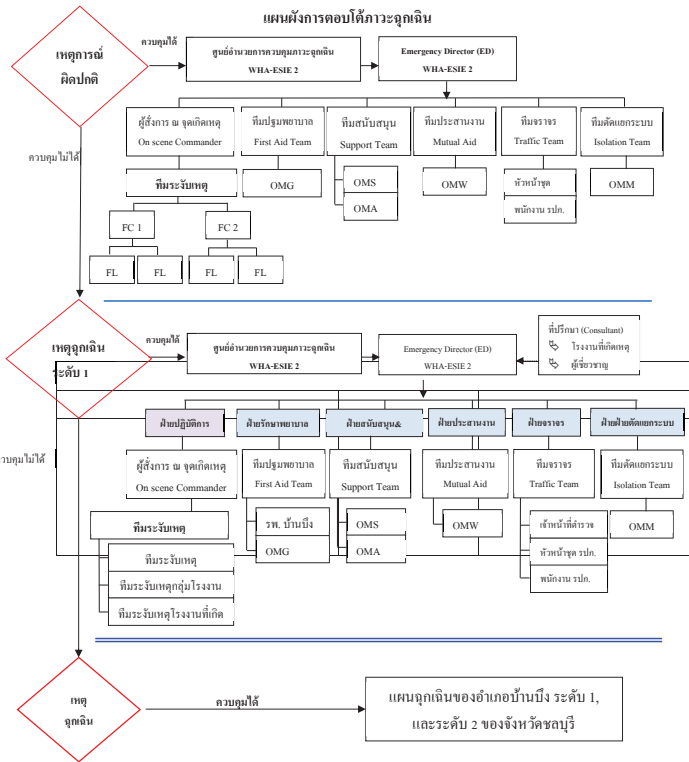


7. โครงสร้างองค์กรตอบได้ภาวะฉุกเฉิน

เพื่อให้การตอบได้ภาวะฉุกเฉินเป็นไปอย่างค่อนเนื่องและมีประสิทธิภาพ จึงได้กำหนดตำแหน่งและหน้าที่รับผิดชอบการตอบได้ภาวะฉุกเฉิน ดังนี้

เอกสารฉบับนี้ เริ่มใช้วันที่ 1 มกราคม 2567 ถึง วันที่ 31 ธันวาคม 2567

หน้า 20/39



8. ผู้ที่ดำรงตำแหน่งและหน้าที่ในแผนฉุกเฉิน

ตำแหน่ง : ผู้อำนวยการควบคุมภาวะฉุกเฉิน Emergency Director (ED)

หน้าที่ : เป็นผู้สั่งการสูงสุดของศูนย์ควบคุมภาวะฉุกเฉิน

ผู้ทำหน้าที่ :

แผนฉุกเฉิน		
เหตุการณ์ ผู้ทำหน้าที่ ED	ระดับ 1 ผู้ทำหน้าที่ ED	ระดับ 2 ผู้ทำหน้าที่ ED
1. ผู้อำนวยการนิคมอุตสาหกรรม 2. ผู้อำนวยการปฏิบัติการ 3. ผู้จัดการฝ่ายความปลอดภัยและสิ่งแวดล้อม 4. ผู้จัดการบริหารหรือโรงงานที่เกิดเหตุ	ในแผนฉุกเฉินของ อำเภอ บ้านโป่ง	ในแผนฉุกเฉินของจังหวัดชลบุรี,

หน้าที่ในภาวะฉุกเฉิน

ในภาวะปกติ

- กำหนดนโยบายด้านความปลอดภัยและ การควบคุมภาวะฉุกเฉิน
- จัดตั้งองค์กรตอบโต้ภาวะฉุกเฉินได้อย่างมีประสิทธิภาพ
- จัดให้มีการฝึกซ้อมแผนควบคุมภาวะฉุกเฉินอย่างน้อยปีละ 2 ครั้ง
- จัดให้มีการ Audit ความพร้อมตามระเบียบการปฏิบัติการควบคุมภาวะฉุกเฉินอย่างน้อยปีละ 2 ครั้ง

ในภาวะฉุกเฉิน

- ให้ผู้มีรายชื่อตามลำดับขั้นเป็นผู้ดำรงตำแหน่งจนกว่าผู้ที่มีรายชื่อลำดับขั้นต่อไปจะมาถึงประสานงานกับเจ้าหน้าที่ราชการที่เกี่ยวข้อง
- กรณีเหตุฉุกเฉิน ให้กลับเข้าสู่ศูนย์ควบคุมภาวะฉุกเฉิน (WHA ESIE2) ทันทีที่ได้รับแจ้งเหตุ
- ประสานงานกับ OC พิจารณาการประกาศ "ภาวะฉุกเฉิน" โดยแจ้งผู้เกี่ยวข้องและขอความช่วยเหลือจากภายนอกทันที หากพิจารณาว่ากำลังพลและเครื่องมืออุปกรณ์ที่มีอยู่ไม่สามารถควบคุมได้



- เมื่อประกาศภาวะฉุกเฉินแล้ว พิจารณาอพยพพนักงานที่ประจำอยู่ที่จุดเกิดเหตุให้ไปยังจุดรวมพลที่ปลอดภัยที่สุดโดยมีจุดรวมพลดังนี้
- จุดรวมพลที่ 1 สำนักงานนิคมอุตสาหกรรมดับเพลิงอาชีวอนามัยและความปลอดภัย (OFFICE WHA ESIE2)
- จุดรวมพลที่ 2 ศูนย์ควบคุมภาวะฉุกเฉินนิคมอุตสาหกรรมดับเพลิงอาชีวอนามัยและความปลอดภัย (OFFICE WHA ESIE2)

อำนาจการตอบโต้ภาวะฉุกเฉินที่ ศูนย์ควบคุมภาวะฉุกเฉิน ทำหน้าที่เป็น ED โดยทำหน้าที่ควบคุมการตรวจสอบ และสนับสนุนการทำงานของทีมควบคุมภาวะฉุกเฉิน หากพบว่ามีกิจกรรมผิดปกติ หรือเสี่ยงต่อความปลอดภัยของพนักงาน หรืออาจจะทำให้เกิดการขยายตัวของเหตุการณ์ ต้องทำการยับยั้ง และหากพิจารณาแล้วว่าหัวหน้าทีมช่วยเหลือส่งการได้ถูกต้องให้ดำเนินการสนับสนุนทั้งทางด้านกำลังคน วัสดุ อุปกรณ์ และปัจจัยสำคัญอื่นๆ โดยพิจารณาถึงปัจจัย 2 ประการดังนี้

- สร้างความปลอดภัยให้กับบุคคลในนิคมอุตสาหกรรมดับเพลิงอาชีวอนามัยและความปลอดภัย (OFFICE WHA ESIE2)
- ป้องกันและช่วยชีวิตพนักงาน
- เคลื่อนย้ายผู้บาดเจ็บไปในพื้นที่ปลอดภัย
- ตรวจสอบจำนวนพนักงานและค้นหาส่วนที่หายไป
- การตอบโต้ภาวะฉุกเฉินและดับเพลิง
- ลดความรุนแรงของเหตุการณ์โดยให้เกิดความสูญเสียอย่างต่ำที่สุด
- รักษาอุปกรณ์ที่อยู่ใกล้จุดเกิดเหตุไม่ให้ได้รับความเสียหายหรือให้เสียหายน้อยที่สุด
- ควบคุมไม่ให้มีการทำลายสภาพแวดล้อม
- ประเมินสถานการณ์แล้วรายงานต่อผู้บังคับบัญชาระดับสูงขึ้นไปทราบ
- ให้การสนับสนุนการทำงานของทีมตอบโต้ภาวะฉุกเฉิน

เมื่อเหตุการณ์สงบ พิจารณายกเลิกภาวะฉุกเฉิน โดยประสานงานกับ On Scene Commander (OC)

ภายหลังภาวะฉุกเฉิน

- รายงานผู้บริหารระดับสูงตามสายการบังคับบัญชา
- สอบสวนสาเหตุของการเกิดเหตุ
- ตรวจสอบข้อเท็จจริงของเหตุการณ์
- ประสานงานกับเจ้าหน้าที่ทางราชการและหน่วยงานที่เกี่ยวข้อง
- ทบทวนความคิดเห็นจากกรรมการส่งเสริมความปลอดภัย การป้องกันอุบัติเหตุ
- ออกเขียนเตือนผู้ที่เกี่ยวข้องได้รับความเสียหายจากเหตุการณ์เท่าที่เหมาะสม อำนาจการฟื้นฟูสภาพจุดเกิดเหตุให้สามารถกลับมาใช้งานได้ตามปกติโดยเร็ว



หน้าที่ : ควบคุมสถานการณ์และสั่งการบริเวณที่เกิดเหตุ

ตำแหน่ง : ผู้จัดการ ณ จุดเกิดเหตุ On Scene Commander (OC)

ผู้ทำหน้าที่ :

แผนฉุกเฉิน		
เหตุการณ์ ผู้ทำหน้าที่ OC	ระดับ 1 ผู้ทำหน้าที่ OC	ระดับ 2 ผู้ทำหน้าที่ OC
1. ผู้จัดการฝ่ายความปลอดภัยและสิ่งแวดล้อม 2. หัวหน้าส่วนความปลอดภัยและดับเพลิง 3. หัวหน้ากะความปลอดภัย 4. OC. ของบริษัท, โรงงานที่เกิดเหตุ	ในแผนฉุกเฉินของอำเภอบ้านโป่ง	ในแผนฉุกเฉินของจังหวัดชลบุรี

หน้าที่ในแผนฉุกเฉิน

ในภาวะปกติ

- ปฏิบัติตามกฎระเบียบด้านความปลอดภัยและสิ่งแวดล้อม
- ตรวจสอบทดสอบระบบแจ้งเหตุ อุปกรณ์ดับเพลิงและอุปกรณ์ฉุกเฉินให้พร้อมใช้งาน
- ประสานงานการจัดหา และเตรียมความพร้อมของเครื่องมือ อุปกรณ์ สิ่งอำนวยความสะดวกต่างๆ ที่ใช้ในการควบคุมภาวะฉุกเฉิน
- จัดให้มีการฝึกซ้อมปฏิบัติการตามแผนฉุกเฉินภายในพื้นที่
- อบรมฝึกสอนเจ้าหน้าที่ให้มีความเข้าใจ ความชำนาญในการควบคุมเหตุฉุกเฉิน ตรวจสอบระบบดับเพลิงให้พร้อมใช้งาน และตรวจสอบอุปกรณ์ควบคุมการเคลื่อนที่ไหล

ในภาวะฉุกเฉิน

- เมื่อมาถึงจุดเกิดเหตุ ให้ติดต่อรายตัวกับ ED ที่ศูนย์ควบคุมภาวะฉุกเฉิน
- การดำรงตำแหน่ง OC ให้เป็นไปตามลำดับในรายชื่อตามแผนฉุกเฉิน
- กรณีผู้ที่มีลำดับสูงสุดไม่อยู่ในพื้นที่ปฏิบัติงานหรือเดินทางมาไม่ถึง ให้ผู้ที่มีรายชื่อตามลำดับแผนฉุกเฉินลงมา / ผู้ที่มีรายชื่ออยู่ในที่เกิดเหตุ / มาถึงจุดเกิดเหตุก่อนให้ทำหน้าที่ OC ก่อนจนกว่าผู้ที่มีรายชื่อในลำดับถัดมาถึง
- เมื่อมาถึงจุดเกิดเหตุ ให้ประเมินสถานการณ์ เพื่อพิจารณาว่าเหตุการณ์มีแนวโน้มลุกลามขยายตัวไม่สามารถควบคุมได้ ให้รายงานตรงต่อ ED เพื่อพิจารณา "ประกาศภาวะฉุกเฉิน"



- ดำเนินการให้ทีมตอบโต้ภาวะฉุกเฉินทำการตอบโต้ภาวะฉุกเฉินเป็นไปอย่างมีประสิทธิภาพมากที่สุด และควบคุมการใช้อุปกรณ์ควบคุมภาวะฉุกเฉินเป็นไปอย่างมีประสิทธิภาพมากที่สุด และปลอดภัยมากที่สุด
- ส่งการควบคุมเพลิง หรือสารเคมีรั่วไหลในเบื้องต้น เพื่อควบคุมให้อยู่ในพื้นที่จำกัด
- ประสานกับ ED เพื่อพิจารณาตัดสินใจสั่งหยุดการผลิตในโรงงานเพื่อป้องกันการลุกลาม

ภายหลังภาวะฉุกเฉิน

- สำรวจความเสี่ยงของพื้นที่ อุปกรณ์ ดำเนินการจัดหามาทดแทน
- ร่วมสอบสวนหาสาเหตุของเหตุฉุกเฉิน
- ร่วมกับ ED อำนวยความสะดวกฟื้นฟูสภาพจุดเกิดเหตุให้สามารถกลับมาใช้งานได้ตามปกติโดยเร็ว

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หน้าที่ : ควบคุมทีมตอบโต้และระงับเหตุฉุกเฉิน
ตำแหน่ง : ผู้ควบคุมทีมระงับเหตุฉุกเฉิน Fire Chief (FC)
ผู้ทำหน้าที่ :

แผนฉุกเฉิน		
เหตุคิดปกติ ผู้ทำหน้าที่ FC	ระดับ 1 ผู้ทำหน้าที่ FS	ระดับ 2 ผู้ทำหน้าที่ FS
1. หัวหน้าส่วนความปลอดภัยและดับเพลิง 2. หัวหน้าความปลอดภัย 3. FC. ของบริษัท, โรงงานที่เกิดเหตุ	ในแผนฉุกเฉินของอาเภอบ้านบึง	ในแผนฉุกเฉินของจังหวัดชลบุรี

หน้าที่ในแผนฉุกเฉิน

ในภาวะปกติ

- ปฏิบัติตามกฎระเบียบด้านความปลอดภัยและสิ่งแวดล้อม
- ตรวจสอบทดสอบระบบแจ้งเหตุ อุปกรณ์ดับเพลิงและอุปกรณ์ฉุกเฉินให้พร้อมใช้งาน
- ประสานงานการจัดการ และเตรียมความพร้อมของเครื่องมือ อุปกรณ์ สิ่งอำนวยความสะดวกต่างๆ ที่ใช้ในการควบคุมภาวะฉุกเฉิน



- จัดให้มีการฝึกซ้อมปฏิบัติการตามแผนฉุกเฉินภายในพื้นที่
- อบรมฝึกสอนเจ้าหน้าที่ให้มีความเข้าใจ ความชำนาญในการควบคุมเหตุฉุกเฉิน ตรวจสอบระบบน้ำดับเพลิงให้พร้อมใช้งาน และตรวจสอบอุปกรณ์ควบคุมสารเคมีรั่วไหล

ในภาวะฉุกเฉิน

- เมื่อเกิดเหตุ ให้จัดทีมออกตอบโต้ภาวะฉุกเฉินและประสานงานกับ OC หรือเจ้าของพื้นที่เพื่อทำการควบคุมภาวะฉุกเฉิน
- การดำรงตำแหน่ง FC ให้เป็นไปตามลำดับในรายชื่อตามแผนฉุกเฉิน
- รายงานสถานการณ์ให้กับ OC รับทราบ เพื่อให้ OC และ ED พิจารณาเลือกวิธีการควบคุมภาวะฉุกเฉิน
- ปฏิบัติตามคำแนะนำของ OC และเลือกวิธีการควบคุมภาวะฉุกเฉิน
- ควบคุมทีมตอบโต้ภาวะฉุกเฉินทำการตอบโต้ภาวะฉุกเฉินเป็นไปอย่างมีประสิทธิภาพมากที่สุด และควบคุมการใช้อุปกรณ์ควบคุมภาวะฉุกเฉินเป็นไปอย่างมีประสิทธิภาพมากที่สุด และปลอดภัยมากที่สุด
- ควบคุมเพลิง หรือสารเคมีรั่วไหลในเบื้องต้น เพื่อควบคุมให้อยู่ในพื้นที่จำกัด
- หากพิจารณาแล้ววิธีการที่กำลังดำเนินการอยู่ไม่สามารถควบคุมสถานการณ์ไว้ได้ หรือกำลังคน/เครื่องมืออุปกรณ์/หรือทรัพยากรอื่นๆ ไม่เพียงพอต่อการระงับเหตุ ให้รีบรายงาน OC เพื่อพิจารณาหาวิธีการใหม่หรือจัดเตรียมสิ่งขาดหรือไม่เพียงพอโดยทันที
- ประสานกับ OC เพื่อพิจารณาตัดสินใจสั่งหยุดการผลิตในโรงงานเพื่อป้องกันการลุกลาม

ภายหลังภาวะฉุกเฉิน

- สำรวจความเสี่ยงของพื้นที่ อุปกรณ์ ดำเนินการจัดหามาทดแทน
- ร่วมสอบสวนหาสาเหตุของเหตุฉุกเฉิน
- ร่วมกับ ED อำนวยความสะดวกฟื้นฟูสภาพจุดเกิดเหตุให้สามารถกลับมาใช้งานได้ตามปกติโดยเร็ว

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หน้าที่ : ทีมตอบโต้ภาวะฉุกเฉินหรือทีมระงับเหตุฉุกเฉิน
ตำแหน่ง : ทีมตอบโต้ภาวะฉุกเฉินหรือทีมระงับเหตุฉุกเฉิน (Emergency Respond Team) ERT
ผู้ทำหน้าที่ :

แผนฉุกเฉิน		
เหตุคิดปกติ ผู้ทำหน้าที่ ERT	ระดับ 1 ผู้ทำหน้าที่ ERT	ระดับ 2 ผู้ทำหน้าที่ ERT
1. หัวหน้าความปลอดภัยและดับเพลิง 2. พนักงานความปลอดภัยและดับเพลิง 3. ERT ของบริษัท หรือโรงงานที่เกิดเหตุ	ในแผนฉุกเฉินของอาเภอบ้านบึง	ในแผนฉุกเฉินของจังหวัดชลบุรี

หน้าที่ในแผนฉุกเฉิน

ในภาวะปกติ

- ปฏิบัติตามกฎระเบียบด้านความปลอดภัยและสิ่งแวดล้อม
- ตรวจสอบทดสอบระบบแจ้งเหตุ อุปกรณ์ดับเพลิงและอุปกรณ์ฉุกเฉินให้พร้อมใช้งาน
- ประสานงานการจัดการ และเตรียมความพร้อมของเครื่องมือ อุปกรณ์ สิ่งอำนวยความสะดวกต่างๆ ที่ใช้ในการควบคุมภาวะฉุกเฉิน
- ร่วมทำการฝึกซ้อมปฏิบัติการตามแผนฉุกเฉินภายในพื้นที่
- ฝึกอบรมทำความเข้าใจ ให้เกิดความชำนาญในการควบคุมเหตุฉุกเฉิน ตรวจสอบระบบน้ำดับเพลิงให้พร้อมใช้งาน และตรวจสอบอุปกรณ์ควบคุมสารเคมีรั่วไหล

ในภาวะฉุกเฉิน

- เมื่อเกิดเหตุฉุกเฉิน ให้ออกตอบโต้ภาวะฉุกเฉิน ภายใต้อำนาจของ Fire Chief หรือ OC เพื่อทำการควบคุมภาวะฉุกเฉิน
- ปฏิบัติตามคำแนะนำของ Fire Chief หรือ OC และเลือกวิธีการควบคุมภาวะฉุกเฉิน
- ควบคุมและตอบโต้ภาวะฉุกเฉินให้เป็นไปอย่างมีประสิทธิภาพมากที่สุด และควบคุมการใช้ อุปกรณ์ควบคุมภาวะฉุกเฉินเป็นไปอย่างมีประสิทธิภาพมากที่สุด และปลอดภัยมากที่สุด
- ควบคุมเพลิง หรือสารเคมีรั่วไหลในเบื้องต้น เพื่อควบคุมให้อยู่ในพื้นที่จำกัด
- หากไม่สามารถควบคุมได้ให้แจ้ง Fire Chief เพื่อประสานกับ OC พิจารณาตัดสินใจสั่งหยุดการผลิตในโรงงานเพื่อป้องกันการลุกลาม



- ERT ที่หลุดกะ หรือพักกะ เมื่อเกิดเหตุฉุกเฉินให้มารายงานตัวต่อ ผู้ที่ทำหน้าที่ OC ทันทีที่ได้รับภารกิจ

ภายหลังภาวะฉุกเฉิน

- สำรวจความเสี่ยงของพื้นที่ อุปกรณ์ ดำเนินการจัดหามาทดแทน
- ร่วมสอบสวนหาสาเหตุของเหตุฉุกเฉิน
- ร่วมกับ ED อำนวยความสะดวกฟื้นฟูสภาพจุดเกิดเหตุให้สามารถกลับมาใช้งานได้ตามปกติโดยเร็ว

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หน้าที่ : ควบคุมทีมพยาบาล
ตำแหน่ง : หัวหน้าทีมปฐมพยาบาล First Aid team (FT)
ผู้ช่วยทีมปฐมพยาบาล

แผนฉุกเฉิน		
เหตุคิดปกติ ผู้ทำหน้าที่ FT	ระดับ 1 ผู้ทำหน้าที่ FT	ระดับ 2 ผู้ทำหน้าที่ FT
1. รพ. บ้านบึง 2. รพ. ชลบุรี 3. OMG (หัวหน้าส่วนซ่อมบำรุง)	ในแผนฉุกเฉินของอาเภอบ้านบึง	ในแผนฉุกเฉินของจังหวัดชลบุรี

หน้าที่ในแผนฉุกเฉิน

ในภาวะปกติ

- ศึกษาวิธีการปฐมพยาบาล และการเคลื่อนย้ายผู้บาดเจ็บและตรวจสอบอุปกรณ์ปฐมพยาบาลให้อยู่ในสภาพที่พร้อมใช้งาน
- ฝึกการปฐมพยาบาล และวิธีการเคลื่อนย้ายผู้บาดเจ็บ
- ร่วมฝึกซ้อมเหตุฉุกเฉินอย่างสม่ำเสมอ

ในภาวะฉุกเฉิน

- เมื่อได้รับแจ้งเหตุประกาศ “ภาวะฉุกเฉิน” ให้ไปรายงานตัวต่อ ED ที่ศูนย์ควบคุมภาวะฉุกเฉิน



- ❖ กรณีผู้ที่มีลำดับสูงสุดไม่อยู่ในพื้นที่ปฏิบัติงานหรือเดินทางมาไม่ถึง ให้ผู้ที่มีรายชื่อตามลำดับแผนฉุกเฉินลงมา / ผู้ที่มีรายชื่ออยู่ในที่เกิดเหตุ / มาถึงจุดประจำการก่อนให้ทำหน้าที่หัวหน้าทีมปฐมพยาบาล แล้วติดต่อแจ้งรายงานตัวกับ OC ก่อนจนกว่าผู้ที่มีรายชื่อในลำดับถัดมาถึง
- ❖ มีหน้าที่ควบคุมทีม FT ประสานงานและรายงานคงต่อ ED
- ❖ รับคิชอบความพร้อมของอุปกรณ์ปฐมพยาบาล / อุปกรณ์เคลื่อนย้ายหรือช่วยเหลือผู้ป่วย / ผู้ที่ได้รับบาดเจ็บ
- ❖ บันทึกการเข้ารักษาพยาบาลและจัดการส่งผู้ที่ได้รับบาดเจ็บต่อโรงพยาบาล
- ❖ จัดเตรียมยานพาหนะในการเคลื่อนย้ายผู้ป่วยหรือผู้ที่ได้รับบาดเจ็บจากจุดรับ - ส่งผู้บาดเจ็บในโรงงานเพื่อส่งเข้าสถานพยาบาล
- ❖ รับคิชอบเครื่องมือสำหรับช่วยเหลือผู้ป่วยหรือผู้ที่ได้รับบาดเจ็บ
- ❖ รายงานชื่อ อาคาร ของผู้ที่ได้รับบาดเจ็บและโรงพยาบาลที่นำส่งและผู้ส่งการทีมสนับสนุน
- ❖ รายงานเหตุการณ์ต่อผู้ควบคุมภาวะฉุกเฉิน (ED) เป็นระยะ

ภายหลังภาวะฉุกเฉิน

- ❖ ตรวจสอบสภาพอุปกรณ์ เครื่องมือ ภายหลังการใช้งาน
- ❖ เมื่อเหตุการณ์สงบมีหน้าที่สรุปผลการบาดเจ็บ, จำนวนและจัดส่งผู้บาดเจ็บออกภายนอกเพื่อรายงานต่อ ED

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หน้าที่ : ควบคุมทีมสนับสนุนและอพยพ
ตำแหน่ง : ผู้ส่งการทีมสนับสนุน (Supporting & Evacuating Team)
ผู้ทำหน้าที่ :

แผนฉุกเฉิน		
เหตุฉุกเฉิน ผู้ทำหน้าที่ สนับสนุนและอพยพ	ระดับ 1 ผู้ทำหน้าที่สนับสนุนและอพยพ	ระดับ 2 ผู้ทำหน้าที่ สนับสนุนและอพยพ
1. OMS (ผู้จัดการฝ่ายปฏิบัติการ)	ในแผนฉุกเฉินของอาเภอบ้านบึง	ในแผนฉุกเฉินของจังหวัดชลบุรี
2. OMA (เจ้าหน้าที่ธุรการ)		



หน้าที่ในแผนฉุกเฉิน

ในภาวะปกติ

- ❖ เสนอแต่งตั้ง "ผู้นำการอพยพ" และ "กำหนดจุดอพยพและตรวจสอบพื้นที่" ในแต่ละพื้นที่ตามความเหมาะสมอย่างเป็นทางการดังนี้
 - จุดรวมพล จุดที่ 1 OFFICE(CITY PARK)
 - จุดรวมพล จุดที่ 2 FIRE STATION
- ❖ ชี้แจงทำความเข้าใจแก่ผู้ทำหน้าที่ในการอพยพ
- ❖ จัดเตรียมยานพาหนะสำหรับใช้งานในเหตุฉุกเฉิน

ในภาวะฉุกเฉิน

- ❖ เมื่อมีการประกาศ "ภาวะฉุกเฉิน และสั่งการอพยพพนักงาน" ไปยังจุดรวมพลเพื่อรับการรายงานจาก "ผู้นำการอพยพ" จากพื้นที่ต่างๆ
- ❖ ตรวจสอบและยืนยันจาก "ผู้นำอพยพ" ว่ามีผู้บาดเจ็บสูญหายอยู่ในพื้นที่เกิดเหตุ แล้วรายงาน "ผู้จัดการควบคุมภาวะฉุกเฉิน" หรือ "ผู้ส่งการควบคุมภาวะฉุกเฉิน" ทันที
- ❖ ชี้แจงแนะนำให้พนักงานอยู่ในความสงบ รอฟังคำสั่งของผู้บังคับบัญชาต่อไป รวมถึงแจ้งสถานการณ์เป็นระยะๆ เพื่อขวัญและกำลังใจ
- ❖ จัดเตรียมกำลังคนสนับสนุนการปฏิบัติงานด้านต่างๆ ตามการร้องขอ
- ❖ สนับสนุนยานพาหนะ, อาหาร, เครื่องดื่ม อุปกรณ์ที่จำเป็นในการตอบโต้ภาวะฉุกเฉิน

ภายหลังภาวะฉุกเฉิน

- ❖ ชี้แจงทำความเข้าใจกับพนักงานถึงเหตุการณ์ที่เกิดขึ้น หรือประสานงานกับทางฝ่ายบริหารเพื่อบำรุงชี้แจงประสานงานกับหน่วยงานราชการ

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หน้าที่ : ทำหน้าที่ประสานงานกับหน่วยงานภายนอก
ตำแหน่ง : ผู้ประสานงาน Mutual Aid Coordinator Team (MC)
ผู้ทำหน้าที่ :



แผนฉุกเฉิน		
เหตุฉุกเฉิน ผู้ทำหน้าที่	ระดับ 1 ผู้ทำหน้าที่ MC	ระดับ 2 ผู้ทำหน้าที่ MC
1. OMW (หัวหน้าส่วนปฏิบัติการระบบน้ำประปา)	ในแผนฉุกเฉินของอาเภอบ้านบึง	ในแผนฉุกเฉินของจังหวัดชลบุรี

หน้าที่ในแผนฉุกเฉิน

ในภาวะปกติ

- ❖ ควบคุมให้มีการปฏิบัติตามกฎระเบียบด้านความปลอดภัย
- ❖ จัดเตรียมอุปกรณ์สื่อสารให้พร้อมใช้งาน
- ❖ อบรมฝึกสอนเจ้าหน้าที่ในส่วนให้มีความเข้าใจ ความชำนาญในการสื่อสารและประสานงานในการควบคุมเหตุฉุกเฉิน

ในภาวะฉุกเฉิน

- ❖ รายงานตัวต่อผู้อำนวยการควบคุมภาวะฉุกเฉิน (ED) ทราบ
- ❖ ประสานงาน แนะนำ ให้ข้อมูลต่างๆ กับผู้ส่งการ ณ จุดเกิดเหตุ On Scene Commander (OC), ผู้อำนวยการควบคุมภาวะฉุกเฉิน (ED)
- ❖ ประสานงานกับหน่วยงานภายนอกในการขอความช่วยเหลือโดยรับคำสั่งจากผู้อำนวยการควบคุมภาวะฉุกเฉิน (ED)

หลังภาวะฉุกเฉิน

- ❖ ร่วมสอบสวนหาสาเหตุของการเกิดเหตุ
- ❖ จัดเจ้าหน้าที่ควบคุมพื้นที่ (Stand by)

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หน้าที่ : ทำหน้าที่ Traffic Team (TT)
ตำแหน่ง : จัดระเบียบและอำนวยความสะดวกด้านจราจร
ผู้ทำหน้าที่ :



แผนฉุกเฉิน		
เหตุฉุกเฉิน ผู้ทำหน้าที่ TT	ระดับ 1 ผู้ทำหน้าที่ ทีม TT	ระดับ 2 ผู้ทำหน้าที่ ทีม TT
1. เจ้าหน้าที่สำรวจ	ในแผนฉุกเฉินของอาเภอบ้านบึง	ในแผนฉุกเฉินของจังหวัดชลบุรี
2. หัวหน้าชุดรักษาความปลอดภัย		
3. พนักงานรักษาความปลอดภัย		

หน้าที่ในภาวะฉุกเฉิน

ในภาวะปกติ

- ❖ จัดระบบการจราจร
- ❖ จัดระบบการรักษาความปลอดภัย
- ❖ ทดสอบวิทยุสื่อสารทั้งภายในหน่วยงานและนอกหน่วยงาน
- ❖ Up Date ข้อมูลการติดต่อสื่อสาร เช่น หมายเลขโทรศัพท์, และวิธีการติดต่อสื่อสารอื่นๆ
- ❖ ดูแลรักษาความปลอดภัยและจัดการจราจรภายในนิคมอุตสาหกรรม และจัดเตรียมวิทยุสื่อสารให้พร้อมใช้งานเสมอ
- ❖ จัดให้มีการฝึกซ้อมแผนควบคุมภาวะฉุกเฉินอยู่เสมอ

ในภาวะฉุกเฉิน

- ❖ เมื่อได้รับแจ้งเหตุฉุกเฉินต่างๆ จากศูนย์ควบคุมภาวะฉุกเฉิน ให้ไปรายงานตัวต่อผู้อำนวยการควบคุมภาวะฉุกเฉิน (ED) ในกรณีที่ไม่ปฏิบัติงานไม่ได้ให้ผู้มีลำดับต่อไปปฏิบัติหน้าที่แทน
- ❖ เมื่อเกิดเหตุฉุกเฉินให้เคลื่อนย้ายยานพาหนะที่ติดขวางเส้นทาง และปิดกั้นพื้นที่ห้ามบุคคลภายนอกเข้ามาภายใน
- ❖ แจ้งทีมช่วยเหลือจากภายนอกให้รอ จนพ. ฝายความปลอดภัยฯ พาไปรายงานกับผู้ส่งการ ณ จุดเกิดเหตุ On Scene Commander (OC)



- ❖ ไม่ให้ข้อมูลใดๆ ต่อสื่อมวลชน
- ❖ กันผู้ที่ไม่เกี่ยวข้อง ไม่ให้เข้าในแผนฉุกเฉินให้ออกนอกนิคมฯ เช่นผู้รับเหมา ผู้มาติดต่อ

หลังภาวะฉุกเฉิน

- ❖ ดูแลรักษาทรัพย์สินของบริษัทฯ โดยปิดประตูอาคารต่างๆ ที่ไม่จำเป็นและจัดสายตรวจดูแลตลอดเวลา
- ❖ ปิดกั้นพื้นที่เกิดเหตุห้ามผู้ไม่เกี่ยวข้องเข้าพื้นที่จนกว่าจะได้รับอนุญาตจากผู้บังคับบัญชารวมถึง รปภ. ประจำอาคารเวลา

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หน้าที่ : ให้คำแนะนำต่อ "ผู้อำนวยการควบคุมภาวะฉุกเฉิน"
ตำแหน่ง : ที่ปรึกษา Consultant (CT)
ผู้ทำหน้าที่ :

แผนฉุกเฉิน		
เหตุผิดปกติ ผู้ทำหน้าที่ CT	ระดับ 1 ผู้ทำหน้าที่ CT	ระดับ 2 ผู้ทำหน้าที่ CT
1. ผู้จัดการฝ่ายผลิต	ในแผนฉุกเฉินของอ่างเก็บน้ำบึง	ในแผนฉุกเฉินของจังหวัดชลบุรี
2. ผู้จัดการฝ่ายปฏิบัติการ		
3. ผู้จัดการโรงงาน		

หน้าที่ในแผนฉุกเฉิน

- เมื่อได้รับแจ้งเหตุประกาศ "ภาวะฉุกเฉิน" ให้ไปรายงานตัวต่อ "ผู้อำนวยการควบคุมภาวะฉุกเฉิน" (ED) ที่ศูนย์ควบคุมภาวะฉุกเฉิน
- ให้ข้อมูลเกี่ยวกับอันตรายที่อาจจะเกิดขึ้นหรือกระทบต่อชีวิตหรือทรัพย์สินของบริษัทและทรัพย์สินของประชาชนรวมทั้งผลกระทบต่อสิ่งแวดล้อม "ผู้อำนวยการควบคุมภาวะฉุกเฉิน" เกี่ยวกับ
 - ❖ อันตรายของสารเคมี
 - ❖ อันตรายโครงสร้างของอาคารประกอบการที่เกิดเหตุหรือใกล้เคียง
 - ❖ วิธีการระงับเหตุที่ไม่เป็นอันตรายหรือมีอัตราการเสี่ยงสูงต่อผู้เข้าร่วมเหตุ



- ประเมินตามเหตุการณ์สภาพแวดล้อมของเหตุการณ์ เพื่อเสนอให้ข้อมูลประกอบการตัดสินใจของ "ผู้อำนวยการควบคุมภาวะฉุกเฉิน" ประกอบการตัดสินใจประกาศยกเลิกภาวะฉุกเฉิน
- ให้คำแนะนำต่อ "ผู้อำนวยการควบคุมภาวะฉุกเฉิน" ในการบูรณะฟื้นฟูโรงงานหลังภาวะฉุกเฉิน

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หน้าที่ : คัดแยกระบบ
ตำแหน่ง : ทีมคัดแยกระบบ (Isolation Controller Team)
ผู้ทำหน้าที่ :

แผนฉุกเฉิน		
เหตุผิดปกติ ผู้ทำหน้าที่ Isolation Controller Team	ระดับ 1 ผู้ทำหน้าที่ Isolation Controller Team	ระดับ 2 ผู้ทำหน้าที่ Isolation Controller Team
1. หัวหน้าส่วนซ่อมบำรุงระบบเครื่องจักร (OMM)	ในแผนฉุกเฉินของอ่างเก็บน้ำบึง	ในแผนฉุกเฉินของจังหวัดชลบุรี
2. หัวหน้าส่วนซ่อมบำรุงโรงงาน		

หน้าที่ในแผนฉุกเฉิน

ในภาวะปกติ

- ❖ จัดเตรียมเอกสารสำคัญที่จำเป็นต้องใช้งานในการดำเนินการช่วยเหลือฝ่ายปฏิบัติการและทีมตอบโต้ภาวะฉุกเฉิน ในการตอบโต้ภาวะฉุกเฉิน
- ❖ จัดทำแผนการสื่อสารการประสานงานกับหน่วยงานที่เกี่ยวข้อง กรณีที่มีการสั่งการให้ดำเนินการสนับสนุนฝ่ายปฏิบัติการหรือฝ่ายตอบโต้ภาวะฉุกเฉิน
- ❖ จัดทำแผนสนับสนุนการตอบโต้ภาวะฉุกเฉินในด้านต่างๆ เช่น การคัดแยกระบบไฟฟ้า, ระบบเครื่องจักรกล, รวมถึงระบบต่างๆ ที่เกี่ยวข้อง รวมถึงการสนับสนุนทางด้านเชื้อเพลิงของรถดับเพลิง, ระบบแสงสว่างที่ใช้ในการตอบโต้ภาวะฉุกเฉิน ให้มีสภาพที่ต้องพร้อมใช้งานได้ตลอดเวลา
- ❖ จัดให้มีการตรวจสอบอุปกรณ์ต่างๆ ที่จำเป็นต้องใช้ในการตอบโต้ภาวะฉุกเฉิน ให้มีสภาพที่ต้องพร้อมใช้งานได้ตลอดเวลา
- ❖ จัดทำแผนฟื้นฟูสภาพของอุปกรณ์ที่ประสบเหตุให้สามารถกลับมาใช้งานได้ตามปกติโดยเร็วที่สุด



- ❖ ควบคุมตรวจสอบ อุปกรณ์ที่ใช้อยู่ภายในนิคมอุตสาหกรรมให้มีความปลอดภัยตามมาตรฐาน
- ❖ จัดเตรียม ตรวจสอบระบบไฟฟ้าสำรอง ระบบแสงสว่างให้พร้อมใช้งานเสมอ

ในภาวะฉุกเฉิน

- ❖ รายตัวต่อ OC ณ จุดที่เกิดเหตุ และ พร้อมแจ้งยอดจำนวนพนักงานของฝ่ายซ่อมบำรุง
- ❖ สนับสนุนการปฏิบัติงานของทีมนตอบโต้ภาวะฉุกเฉิน เช่นการคัดแยกระบบต่างๆ ที่จะเป็นอันตรายต่อทีมควบคุมภาวะฉุกเฉิน รวมถึงการหยุดการหมุนเนื่องของเชื้อเพลิง
- ❖ ส่งการในส่วนงานที่เกี่ยวข้องคัดแยกระบบไฟฟ้าในโรงงานที่อาจเป็นอันตรายต่อการควบคุมภาวะฉุกเฉิน

ภายหลังภาวะฉุกเฉิน

- ❖ ทำการสอบสวนหาสาเหตุของการเกิดอุบัติเหตุ ที่เกิดขึ้นร่วมกับหน่วยงานต่างๆ
- ❖ ทำการสำรวจการเสียหายของอุปกรณ์, เครื่องจักร ที่ประสบเหตุ
- ❖ รายงานสภาพความเสียหายของอุปกรณ์
- ❖ ดำเนินการแก้ไข ซ่อมแซมอุปกรณ์ที่ได้รับ ความเสียหายให้สามารถนำกลับมาใช้งานได้อีกครั้ง
- ❖ จัดฟื้นฟูสภาพฉุกเฉินให้สามารถกลับมาใช้งานได้ตามปกติโดยเร็ว

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แผนฟื้นฟูภายหลังเกิดเหตุฉุกเฉิน (REMEDIATION PLAN)

ผู้อำนวยการปฏิบัติการ มีหน้าที่รับผิดชอบโดยตรงหรือมอบหมายแต่งตั้งผู้รับผิดชอบ ให้ดำเนินการดังนี้

- ดำเนินการบรรเทาทุกภายหลังเกิดเหตุดังนี้
 - 1.1 ประสานงานกับหน่วยงานราชการที่เกี่ยวข้อง
 - 1.2 ประสานงานกับหน่วยงานที่เกี่ยวข้อง เช่น OMS = ผู้จัดการฝ่ายปฏิบัติการ, SHE = ผู้จัดการฝ่ายความปลอดภัย, OMM = หัวหน้าส่วนปฏิบัติการระบบน้ำประปา, OMM = หัวหน้าส่วนงานซ่อมบำรุงระบบเครื่องจักร, OMM = หัวหน้าส่วนงานซ่อมบำรุงทั่วไป, OMM = หัวหน้าส่วนความปลอดภัยและดับเพลิง เป็นต้น
 - 1.3 สืบหาประเมินความเสียหายร่วมกับหน่วยงานที่เกี่ยวข้องทั้งหน่วยงานภายในบริษัทและหน่วยงานราชการ
 - 1.4 ช่วยเหลือสงเคราะห์ผู้ที่ประสบภัย
 - 1.5 ประสานสัมพันธ์สร้างความเข้าใจ ขวัญกำลังใจให้กับพนักงานภายในบริษัทและชุมชนข้างเคียงจุดที่เกิดเหตุ



- 1.6 ฟื้นฟูการดำเนินการด้านสุขอนามัยให้ะงัก ทั้งทางด้านวัสดุอุปกรณ์ เครื่องมือ เครื่องจักร ขบวนการผลิต และการบริการ
2. ดำเนินการฟื้นฟูสภาพแวดล้อมที่อาจจะมีผลกระทบต่อผู้ปฏิบัติงาน สิ่งแวดล้อม ทรัพย์สิน และชุมชนใกล้เคียงโดย
 - 2.1 ปรับปรุงพื้นที่ที่ได้รับ ความเสียหายให้เร็วที่สุด
 - 2.2 ปรับปรุงอุปกรณ์ต่างๆ ให้ใช้การได้เร็วที่สุด
 - 2.3 กำหนดมาตรการการป้องกัน สำหรับการดำเนินการกิจกรรมต่างๆ ที่เกี่ยวข้อง
3. ทำการระงับทางแพทย์ โดยจัดให้เจ้าหน้าที่เข้าทำการระงับเหตุฉุกเฉิน ได้รับการตรวจสอบสุขภาพเพื่อความมั่นใจด้านความปลอดภัยของเจ้าหน้าที่ที่ปฏิบัติงานและลดความเสี่ยงต่ออันตรายจากสารเคมีตกค้างในร่างกาย

หมายเลขโทรศัพท์หน่วยงานที่รับผิดชอบ/หน่วยงานราชการที่เกี่ยวข้อง

ประเภทเหตุการณ์	ผู้รับผิดชอบ/หน่วยงานราชการ	หมายเลขโทรศัพท์	หมายเหตุ
1) เพลิงไหม้	ศูนย์ควบคุมภาวะฉุกเฉิน WHA ESIE 2	033-005019-20	CH # 22 (245.2625 MHz.)
2) อุบัติเหตุจากจราจร	ศูนย์ควบคุมภาวะฉุกเฉิน WHA ESIE 2	065-7291375	
3) สารเคมีหก/รั่วไหล	ศูนย์ควบคุมภาวะฉุกเฉิน WHA ESIE 2	080-0966113	
4) ท่อแก๊สรั่ว/เสียหาย	ศูนย์ควบคุมภาวะฉุกเฉิน WHA ESIE 2	033-048137	
5) น้ำท่วม	ศูนย์ควบคุมภาวะฉุกเฉิน WHA ESIE 2	033-010771,	
6) ชุมชนประท้วง	ศูนย์ควบคุมภาวะฉุกเฉิน WHA ESIE 2	085-5790566	
	สภ.คลองแก้ว	038-201390	
	สภ.บ่อวิน	038-067313	
	โรงพยาบาลบ้านบึง	038-954433	
	โรงพยาบาลชลบุรี	038-444406	



โรงพยาบาลแหลมฉบัง	038-352974-79
โรงพยาบาลกรุงเทพ	038-259999
โรงพยาบาลสมิติเวช ศรีราชา	038-320300
โรงพยาบาลพญาไท ศรีราชา	038-317319,038-317333
โรงพยาบาลสมเด็จพระบรมราชเทวี ณ ศรีราชา	038-320200
สำนักงานป้องกันควบคุมโรคที่ 6 ชลบุรี	038-271881-2, 038-277057-8 038-260970
ศูนย์อนุรักษ์พันธุ์สัตว์ศรีราชา	080-3657317, 065-5477424
สำนักงานปศุสัตว์จังหวัดชลบุรี	038-285256

ประเภทเหตุการณ์	ผู้รับผิดชอบ/หน่วยงานราชการ	หมายเลขโทรศัพท์	หมายเหตุ
1. เหตุฉุกเฉิน	ป.ต.ท. - ศูนย์ควบคุมการก๊าซธรรมชาติชลบุรี - ผู้จัดการแผนกบำรุงรักษาท่อและอุปกรณ์ - ศูนย์ควบคุมก๊าซธรรมชาติ เขต 3	1540 ต่อ 0 038 - 274397,399 038- 274390 038 - 685021	ต่อก๊าซธรรมชาติให้แจ้ง ป.ต.ท. ที่รับผิดชอบ
2. เหตุสาธารณูปโภค	- การไฟฟ้าส่วนภูมิภาคอำเภอบ้านบึง - คุณเสกฉัตร วงศ์ศรีทา	038-445034 ,038-445011 099-5092741	WHA
2.1 ไฟฟ้าดับ/ขัดข้อง			
2.2 โทรศัพท์ขัดข้อง	- คุณเสกฉัตร วงศ์ศรีทา	099-5092741	WHA
2.3 ระบบน้ำประปาขัดข้อง	- คุณธนวิทย์ เดชกุ่ม	063-2058914	WHA
2.4 ระบบท่อส่งน้ำดิบ	- คุณธนวิทย์ เดชกุ่ม	063-2058914	WHA



	- EAST WATER (ระยอง) - EAST WATER (แหลมฉบัง)	063-2058914 038 - 685570 038 - 400193	WHA
2.5 ระบบบำบัดน้ำเสีย	- คุณธนวิทย์ เดชกุ่ม	063-2058914	WHA
3. อื่นๆ	WHA - คุณปิยะศักดิ์ นามเดช (OMS) - คุณพนธนะ จิวาลักษณ์ (AOMS) - คุณชัยวุฒิ กองมงคล (SHE) - คุณสมศร อภิเนตร (Safety) - คุณปิยะธิดา อภิระวัธย์ (Env. Mgr) การนิคมอุตสาหกรรมแห่งประเทศไทย ศูนย์ปฏิบัติการ กนอ. คุณทรงศักดิ์ ชื่นตา ผอ.สน.ตบ. 1-4	081 527 7825 064-2436750 065 - 7291375 080 - 0966113 087 - 1911771 02 - 2530561 ต่อ 8000 02 - 25707876 (สายตรง) 083-9456993	WHA WHA WHA WHA WHA WHA กนอ.

หมายเลขโทรศัพท์หน่วยงานที่รับผิดชอบ/หน่วยงานราชการที่เกี่ยวข้อง (ต่อ)



แผนที่แสดงจุดรวมพล (WHA ESIE 2)



ภาคผนวก ข-3

สำเนาหนังสือนำเสนอรายงานฯ ฉบับเดือนมกราคม-มิถุนายน พ.ศ. 2567
ต่อหน่วยงานต่างๆ

THE ULTIMATE SOLUTION FOR SUSTAINABLE GROWTH



ที่ WHA-ESIE2.OP.097/2567

วันที่ 22 สิงหาคม 2567

เรื่อง นำส่งรายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม โครงการนิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2 ระหว่างเดือนมกราคม-มิถุนายน 2567

เรียน ผู้ว่าการ การนิคมอุตสาหกรรมแห่งประเทศไทย

สิ่งที่ส่งมาด้วย 1. รายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม ระหว่างเดือนมกราคม-มิถุนายน 2567 จำนวน 3 ฉบับ
2. แผ่นข้อมูล CD – ROM จำนวน 4 แผ่น

กสว. ได้รับเอกสารแล้ว

เนื่องด้วย บริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลลอปเม้นท์ จำกัด (มหาชน) ผู้พัฒนาโครงการนิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2 ตั้งอยู่ในตำบลเขาคันทรง อำเภอศรีราชา จังหวัดชลบุรี และตำบลคลองแก้ว อำเภอบ้านบึง จังหวัดชลบุรี ได้ดำเนินการตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม ที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อม ในระหว่างเดือนมกราคม-มิถุนายน 2567 เป็นที่เรียบร้อยแล้ว จึงขอส่งรายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม ตามสิ่งที่ส่งมาด้วย

จึงเรียนมาเพื่อโปรดทราบและพิจารณา

ขอแสดงความนับถือ

(นายณัฐพร ตันบุญเอก) (นายสุวัชร จิตะชนะกิจ)

(ผู้รับมอบอำนาจ)

บริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลลอปเม้นท์ จำกัด (มหาชน)

ปิ่น
30 ส.ค. 67

ที่ WHA-ESIE2.OP.127/2567

1 ตุลาคม 2567

เรื่อง ขอจัดส่งรายงานผลการติดตามตรวจสอบคุณภาพสิ่งแวดล้อมและมาตรการติดตามตรวจสอบผลกระทบ
สิ่งแวดล้อม
เรียน นายกองค้การบริหารส่วนตำบลคลองก๊ว

สิ่งที่ส่งมาด้วย 1.รายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อมและมาตรการติดตาม
ตรวจสอบผลกระทบสิ่งแวดล้อม จำนวน 1 เล่ม

ตามที่ นิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2 (“นิคมฯ”) ซึ่งโครงการตั้งอยู่ในเขตพื้นที่ดูแลของ
องค์การบริหารส่วนตำบลคลองก๊ว ได้มีการจัดทำรายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบ
สิ่งแวดล้อม และติดตามตรวจสอบคุณภาพสิ่งแวดล้อม (“รายงานฯ”) เป็นประจำทุกๆ 6 เดือน คือช่วงเดือน
มกราคม - มิถุนายน และ กรกฎาคม - ธันวาคม ของทุกปี ซึ่งทางนิคมฯ ได้มีการจัดส่งรายงานให้ทางองค์การบริหาร
ส่วนตำบลคลองก๊ว มาเป็นประจำแล้วนั้น

บัดนี้ รายงานฯของเดือน มกราคม - มิถุนายน 2567 ได้จัดทำเสร็จเรียบร้อยแล้วและส่งให้หน่วยงานที่กำกับดูแล
โดยตรงแล้ว นิคมฯ จึงขอจัดส่งรายงานฯ ฉบับดังกล่าว ให้กับทางองค์การบริหารส่วนตำบลคลองก๊ว ไว้เพื่อใช้เป็นข้อมูล
ตรวจสอบคุณภาพด้านสิ่งแวดล้อมของนิคมฯ ต่อไป

ขอแสดงความนับถือ



(นายปิยศักดิ์ นามเดช)

ผู้จัดการฝ่ายปฏิบัติการและบำรุงรักษา

นิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2

ได้รับต้นฉบับเรียบร้อยแล้ว

ลงชื่อ.....ผู้รับ

(.....)

...../...../.....

สำเนาเรียน VP/ EOD/ EMR /A.OMS/ EMG/OME

File : IEO-P-006

บริษัท ดับบลิวเอชเอ อินดัสตริ얼 ดีเวลอปเม้นท์ จำกัด (มหาชน) โทร. 0107536000676

WHA INDUSTRIAL DEVELOPMENT PUBLIC COMPANY LIMITED

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ที่ WHA-ESIE2.OP.128/2567

1 ตุลาคม 2567

เรื่อง ขอจัดส่งรายงานผลการติดตามตรวจสอบคุณภาพสิ่งแวดล้อมและมาตรการติดตามตรวจสอบผลกระทบ
สิ่งแวดล้อม

เรียน นายกองค์การบริหารส่วนตำบลเขาคันทรง

สิ่งที่ส่งมาด้วย 1.รายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อมและมาตรการติดตาม
ตรวจสอบผลกระทบสิ่งแวดล้อม จำนวน 1 เล่ม

ตามที่ นิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2 (“นิคมฯ”) ซึ่งโครงการตั้งอยู่ในเขตพื้นที่ดูแลของ
องค์การบริหารส่วนตำบลเขาคันทรง ได้มีการจัดทำรายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบ
สิ่งแวดล้อม และติดตามตรวจสอบคุณภาพสิ่งแวดล้อม (“รายงานฯ”) เป็นประจำทุกๆ 6 เดือน คือช่วงเดือน
มกราคม - มิถุนายน และ กรกฎาคม - ธันวาคม ของทุกปี ซึ่งทางนิคมฯ ได้มีการจัดส่งรายงานให้ทางองค์การบริหาร
ส่วนตำบลเขาคันทรง มาเป็นประจำแล้วนั้น

บัดนี้ รายงานฯ ของเดือน มกราคม - มิถุนายน 2567 ได้จัดทำเสร็จเรียบร้อยแล้วและส่งให้หน่วยงานที่กำกับดูแล
โดยตรงแล้ว นิคมฯ จึงขอจัดส่งรายงานฯ ฉบับดังกล่าว ให้กับทางองค์การบริหารส่วนตำบลเขาคันทรง ไว้เพื่อใช้เป็นข้อมูล
ตรวจสอบคุณภาพด้านสิ่งแวดล้อมของนิคมฯ ต่อไป

ขอแสดงความนับถือ



(นายปิยศักดิ์ นามเดช)

ผู้จัดการฝ่ายปฏิบัติการและบำรุงรักษา

นิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2

ได้รับต้นฉบับเรียบร้อยแล้ว

ลงชื่อ.....
(นางอัญชลีชนม์ ศรีประเสริฐ)
ผู้ช่วยเจ้าพนักงานธุรการ
3 10 2567

สำเนาเรียน VP/ EOD/ EMR /A.OMS/ EMG/OME

File : IEO-P-006

บริษัท ดับบลิวเอชเอ อินดัสตริ얼 ดีเวลอปเม้นท์ จำกัด (มหาชน) โทร. 0167536000676

WHA INDUSTRIAL DEVELOPMENT PUBLIC COMPANY LIMITED

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Bang Kaeo, Bang Phli, Samutprakarn 10540 Thailand

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ที่ WHA-ESIE2.OP.129/2567

1 ตุลาคม 2567

เรื่อง ขอจัดส่งรายงานผลการติดตามตรวจสอบคุณภาพสิ่งแวดล้อมและมาตรการติดตามตรวจสอบผลกระทบ
สิ่งแวดล้อม

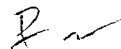
เรียน นายอำเภอศรีราชา

สิ่งที่ส่งมาด้วย 1.รายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อมและมาตรการติดตาม
ตรวจสอบผลกระทบสิ่งแวดล้อม จำนวน 1 เล่ม

ตามที่ นิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2 (“นิคมฯ”) ซึ่งโครงการตั้งอยู่ในเขตพื้นที่ดูแลของ
อำเภอศรีราชา ได้มีการจัดทำรายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และติดตาม
ตรวจสอบคุณภาพสิ่งแวดล้อม (“รายงานฯ”) เป็นประจำทุกๆ 6 เดือน คือช่วงเดือน มกราคม-มิถุนายน และ
กรกฎาคม - ธันวาคม ของทุกปี ซึ่งทางนิคมฯ ได้มีการจัดส่งรายงานให้ทางอำเภอศรีราชา มาเป็นประจำแล้วนั้น

บัดนี้ รายงานฯ ของเดือน มกราคม - มิถุนายน 2567 ได้จัดทำเสร็จเรียบร้อยแล้วส่งให้หน่วยงานที่กำกับดูแล
โดยตรงแล้ว นิคมฯ จึงขอจัดส่งรายงานฯ ฉบับดังกล่าว ให้กับทางอำเภอศรีราชา ไว้เพื่อใช้เป็นข้อมูลตรวจสอบคุณภาพด้าน
สิ่งแวดล้อมของนิคมฯ ต่อไป

ขอแสดงความนับถือ



(นายปิยศักดิ์ นามเดช)

ผู้จัดการฝ่ายปฏิบัติการและบำรุงรักษา

นิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2

สำเนาเรียน VP/ EOD/ EMR /A.OMS/ EMG/OME

File : IEO-P-006

ได้รับต้นฉบับเรียบร้อยแล้ว

ลงชื่อ.....ผู้รับ

(.....)

10 / 10 / 67

ที่ WHA-ESIE2.OP.131/2567

1 ตุลาคม 2567

เรื่อง ขอดำเนินการรายงานผลการติดตามตรวจสอบคุณภาพสิ่งแวดล้อมและมาตรการติดตามตรวจสอบผลกระทบ
สิ่งแวดล้อม

เรียน ท่านผู้ว่าราชการจังหวัดชลบุรี

สิ่งที่ส่งมาด้วย 1.รายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อมและมาตรการติดตาม
ตรวจสอบผลกระทบสิ่งแวดล้อม จำนวน 1 เล่ม

ตามที่ นิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2 (“นิคมฯ”) ซึ่งโครงการตั้งอยู่ในเขตพื้นที่ดูแลของ
จังหวัดชลบุรี ได้มีการจัดทำรายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และติดตาม
ตรวจสอบคุณภาพสิ่งแวดล้อม (“รายงานฯ”) เป็นประจำทุกๆ 6 เดือน คือช่วงเดือน มกราคม-มิถุนายน และ กรกฎาคม-
ธันวาคม ของทุกปี ซึ่งทางนิคมฯ ได้มีการจัดส่งรายงานให้ทางจังหวัดชลบุรี มาเป็นประจำแล้วนั้น

บัดนี้ รายงานฯ ของเดือน มกราคม - มิถุนายน 2567 ได้จัดทำเสร็จเรียบร้อยแล้วและส่งให้หน่วยงานที่กำกับดูแล
โดยตรงแล้ว นิคมฯ จึงขอดำเนินการรายงานฯ ฉบับดังกล่าว ให้กับทางจังหวัดชลบุรี ไว้เพื่อใช้เป็นข้อมูลตรวจสอบคุณภาพด้าน
สิ่งแวดล้อมของนิคมฯ ต่อไป

ขอแสดงความนับถือ



(นายปิยศักดิ์ นามเดช)

ผู้จัดการฝ่ายปฏิบัติการและบำรุงรักษา

นิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นซีบอร์ด 2

ได้รับต้นฉบับเรียบร้อยแล้ว

ลงชื่อ.....ผู้รับ
(.....)

สำเนาเรียน VP/ EOD/ EMR /A.OMS/ EMG/OME

File : IEO-P-006

.....พ.อ.ต.ค./2567.....

บริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลอปเม้นท์ จำกัด (มหาชน) โทร. 02-5556000/676

WHA INDUSTRIAL DEVELOPMENT PUBLIC COMPANY LIMITED

WHA TOWER, 777 Moo. 13, 23rd-25th Km. Debaratna Road (Bangna-Trad) KM.7
Bang Kaeo, Bang Phli, Samutprakan 10540, Thailand

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ยืนยันการรับข้อมูลเข้าสู่ระบบอิเล็กทรอนิกส์

เลขที่ Monitor : 256708-992

ชื่อโครงการ : การเปลี่ยนแปลงรายละเอียดโครงการในรายงานการประเมิน
ผลกระทบสิ่งแวดล้อม

โครงการนิคมอุตสาหกรรมดับบลิวเอชเอ อิสเทิร์นซีบอร์ด 2
(ครั้งที่ 2)

รอบรายงาน : ม.ค 67 - มิ.ย. 67

วันที่ยื่นรายงาน : 30/08/2567

เลขที่ IEE/EIA/EHIA : 14774

ผู้ยื่นรายงาน : ภาณุภูมิ สถาพรวัฒนากุล

อีเมล : pakphums@wha-industrialestate.com

โทรศัพท์ : 0811106750



QR Code สำหรับเรียกดูข้อมูลรายงานรายงาน Monitor นี้

โดยท่านสามารถเรียกดูข้อมูลรายงานต่างๆ

ที่เกี่ยวข้องกับโครงการได้ผ่านโมบายแอปพลิเคชัน Smart EIA

อีกหนึ่งช่องทาง

สำนักงานนโยบายและแผนทรัพยากรธรรมชาติและสิ่งแวดล้อม



กองพัฒนาระบบการประเมินผลกระทบสิ่งแวดล้อม
Division of Environmental Impact Assessment Development

ภาคผนวก ข-4

แบบฟอร์มคำขอแจ้งเริ่มประกอบอุตสาหกรรมใน กนอ. 01/1

คำแนะนำ

Recommendations

การยื่นคำขอใช้ที่ดินเพื่อประกอบกิจการในนิคมอุตสาหกรรม

Application for land Utilization to operate in an Industrial Estate (Form 01/1)

◆ เติมข้อความในแบบคำขอให้ถูกต้องและครบถ้วน

Fill the application form correctly and completely

◆ ขีดข้อความที่ไม่ใช่ออกและใส่เครื่องหมาย ☒ ในช่อง ☐ ที่เกี่ยวข้อง

Cross out statements you do not want and put ☒ mark in block ☐ of related parts

◆ หากช่องว่างสำหรับเติมข้อความไม่พอ ให้จัดทำเป็นเอกสารแนบกับคำขอ

Attach additional pages if writing space is limited

◆ เอกสารจำนวน 3 ชุด แนบประกอบคำขออนุญาต (เอกสารต้องมีการลงนามรับรองความถูกต้องของผู้มีอำนาจ)

3 copies of documents are required on application (Documents have to be signed by the authorized person)

1. กรณี ผู้ขอใช้ที่ดินเป็นบุคคลธรรมดา

In case of an applicant is an ordinary person

- สำเนาทะเบียนบ้านและสำเนาบัตรประจำตัวประชาชนหรือสำเนาหนังสือเดินทาง(กรณีเป็นคนต่างด้าว) ของผู้ขอใช้ที่ดิน

Copy of Household Registration and Personal Identification Card or Passport (In case of a foreigner)

- หนังสือมอบอำนาจ ปัดอากรแสตมป์ตามกฎหมาย (กรณีมอบอำนาจ)

Power of Attorney with duty stamps (In case of Power of Attorney)

- สำเนาทะเบียนบ้าน และสำเนาบัตรประจำตัวประชาชนหรือสำเนาหนังสือเดินทาง (กรณีเป็นคนต่างด้าว) ของผู้รับมอบอำนาจ (กรณีมอบอำนาจ)

Copy of Household Registration and personal Identification Card or Passport (In case of a foreigner)

of appointee (In case of Power of Attorney)

- แผนผังแสดงเลขที่แปลงที่ดิน

Master Plan with land plot number

- สำเนาโฉนดที่ดิน หรือหนังสือแสดงการมีสิทธิเข้าใช้ที่ดิน

Land Registration or the letter of land use permission

2. กรณี ผู้ขอใช้ที่ดินเป็นนิติบุคคล

In case of an applicant is a juristic entity

- สำเนาหนังสือรับรองการจดทะเบียนเป็นนิติบุคคล และวัตถุประสงค์การจัดตั้ง (ไม่เกิน 6 เดือน นับตั้งแต่วันที่ออกหนังสือ)

Copy of Registration Certificate as the juristic entity (within 6 months from the issuing date)

- สำเนาบัญชีรายชื่อผู้ถือหุ้น (ไม่เกิน 6 เดือน นับตั้งแต่วันที่ออกหนังสือ)

Copy of company shareholders listing (within 6 months from the issued document)

- แผนผังแสดงเลขที่แปลงที่ดิน

Master Plan with land plot number

- สำเนาโฉนดที่ดิน หรือหนังสือแสดงการมีสิทธิเข้าใช้ที่ดิน

Copy of Land Registration or the letter of land use permission

- สำเนาทะเบียนบ้านและสำเนาบัตรประจำตัวประชาชน หรือสำเนาหนังสือเดินทาง (กรณีเป็นคนต่างด้าว) ของผู้มีอำนาจลงนามแทนนิติบุคคล

Copy of Household Registration and Personal Identification Card or Passport

(In case of a foreigner) of the authorized person.

- หนังสือมอบอำนาจ ปัดอากรแสตมป์ตามกฎหมาย (กรณีมอบอำนาจ)

Power of Attorney with duty stamps (In case of Power of Attorney)

- สำเนาทะเบียนบ้านและสำเนาบัตรประจำตัวประชาชน หรือสำเนาหนังสือเดินทาง (กรณีเป็นคนต่างด้าว) ของผู้รับมอบอำนาจ (กรณีมอบอำนาจ)

Copy of Household Registration and personal Identification Card or Passport (In case of a foreigner)

of Appointee

ในกรณีที่ต้องการคำชี้แจงเพิ่มเติม โปรดติดต่อ

For further information please contact

◆ ฝ่ายบริการเบ็ดเสร็จครบวงจร (ONE STOP SERVICE DEPARTMENT)

โทรศัพท์หมายเลข 0-2253-0561 หรือกองบริการธุรกิจอนุญาตผู้ประกอบการ

การนิคมอุตสาหกรรมแห่งประเทศไทย ถนนนิคมมักกะสัน กรุงเทพฯ 10400

โทรศัพท์หมายเลข 0-2253-0561 ต่อ 4402 หรือสำนักงานนิคมอุตสาหกรรมที่เกี่ยวข้อง

Office of One Stop Service (OSS), Tel : 0-2253-2561 Ext. 1192 or Operating Permit Division,

Industrial Estate Authority of Thailand (IEAT), Nikom Makkasan Road, Bangkok 10400 ,

Tel : 0-2253-0561 Ext. 4402 or an Industrial Estate Office

◆ ให้ยื่นคำขอที่ฝ่ายบริการเบ็ดเสร็จครบวงจร (ONE STOP SERVICE DEPARTMENT)

หรือกองบริการธุรกิจอนุญาตผู้ประกอบการ การนิคมอุตสาหกรรมแห่งประเทศไทย

หรือสำนักงานนิคมอุตสาหกรรมที่เกี่ยวข้อง

Applications shall be submitted in 3 copies to Office of One Stop Service (OSS) or Operating Permit Division, Industrial Estate Authority of Thailand (IEAT) or an Industrial Estate Office

◆ ในกรณีที่ผู้ขอใช้ที่ดินไม่สามารถมารับใบอนุญาตฯ ด้วยตนเองจะต้องมีหนังสือมอบอำนาจให้ผู้มารับใบอนุญาตมีอำนาจลงนามรับทราบเงื่อนไขแนบท้ายใบอนุญาต

In case the applicant can not come to receive the license by him/herself, Power of Attorney is required.

◆ ค่าบริการในการออกใบอนุญาตให้ใช้ที่ดินและประกอบกิจการในนิคมอุตสาหกรรม รวมภาษีมูลค่าเพิ่มเป็นเงิน 10,700.- บาท (หนึ่งหมื่นเจ็ดร้อยบาทถ้วน) ถ้ากรณีชำระเป็นเช็ค ต้องเป็นเช็คของธนาคารที่มีสำนักงานตั้งอยู่ภายในเขตกรุงเทพมหานครหรือปริมณฑล หรือเช็คของธนาคารที่มีสำนักงานตั้งอยู่ในเขตจังหวัดที่มีสำนักงานนิคมอุตสาหกรรมตั้งอยู่ ซึ่งมีต้องเสียค่าธรรมเนียมในการเรียกเก็บเงิน โดยเช็คส่งจ่ายในนาม “การนิคมอุตสาหกรรมแห่งประเทศไทย”

Service charge (including Value Added Tax) is 10,700 baht (One thousand and seven hundred baht only) for issuing the license for industrial operating in an Industrial Estate. Payment can be made in cash or cheque payable to “Industrial Estate Authority of Thailand”. In case of check payment, the paying bank shall have a branch in Bangkok or nearby area or have a branch within province of industrial estate office located that there is no fee on collecting the payment

แบบ กนอ. 01/1 หน้า 1 ของ 4 หน้า

IEAT 01/1 Page 1 of 4



สำหรับเจ้าหน้าที่	
เลขที่คำขอ	ผู้รับ
วันที่	เวลา

คำขอใช้ที่ดินเพื่อประกอบกิจการในนิคมอุตสาหกรรม

Application for land utilization to operate in Industrial Estate

วันที่ เดือน พ.ศ.
Date Month Year

1. ข้อมูลทั่วไป

General information

1.1 ผู้ขออนุญาต

The Applicant

ข้าพเจ้า อายุ ปี สัญชาติ.....
I , age.....years, nationality.....

มีความประสงค์จะขอรับใบอนุญาตให้ใช้ที่ดินและประกอบกิจการในนิคมอุตสาหกรรม ในนาม

wish to apply of permission for land utilization to operate in the industrial estate on the basis of

☐ บุคคลธรรมดา ☐ นิติบุคคลระหว่างการจัดตั้ง ☐ นิติบุคคลจัดตั้งแล้ว

An ordinary people Corporate – in the process of forming, Corporate – already established.

ชื่อ (ภาษาไทย)

Name of applicant (in Thai)

..... (ภาษาอังกฤษ)

..... (in English)

เลขประจำตัวผู้เสียภาษีอากร ☐☐☐☐☐☐☐☐☐☐

Tax Identification Number

ที่อยู่บ้าน/สำนักงานเลขที่ หมู่บ้าน ตรอก/ซอย ถนน.....

Office location : No Moo Soi Street

ตำบล/แขวง..... อำเภอ/เขต..... จังหวัด.....

Sub-District District Province

โทรศัพท์ โทรสาร E-mail

Tel. Fax. E-mail

1.2 ขอใช้ที่ดิน/อาคาร

Application for land use/ Building

1.2.1 เขตฯ ที่ไป แปลงที่ดินเลขที่ เนื้อที่ (ไร่-งาน-ตรว.)

General Use Zone: Land/Plot no. Area (rai-ngarn-square wah)

เขตฯ ตั้งออก แปลงที่ดินเลขที่ เนื้อที่ (ไร่-งาน-ตรว.)

Exporting Processing Zone: Land/ Plot no. Area (rai-ngarn-square wah)

เขตพาณิชย์กรรม แปลงที่ดินเลขที่ เนื้อที่ (ไร่-งาน-ตรว.)

Commercial Zone : Land/ Plot no. Area (rai-ngarn-square wah)

เขตที่พักอาศัย แปลงที่ดินเลขที่ เนื้อที่ (ไร่-งาน-ตรว.)

Residential Zone : Land/ Plot no. Area (rai-ngarn-square wah)

1.2.2 โดย ☐ ซื้อ ☐ เช่าซื้อ ☐ เช่า ☐ ได้รับการยินยอม

By Purchasing Hire-Purchasing Leasing Owner's permission

จาก ☐ กนอ.

From IEAT

☐ อื่น ๆ

Others

2. การประกอบกิจการ

Operation

2.1 ประกอบกิจการ

Type of operation

2.2 แผนการดำเนินงานกิจการ

Operation plan

- เริ่มก่อสร้างอาคารโรงงานภายในวันที่ เดือน พ.ศ.
- Construction to start by date Month Year
- เริ่มประกอบกิจการภายในวันที่ เดือน พ.ศ.
- Operation to start by date Month Year

3. ทุน

Registered Capital

3.1 ทุนจดทะเบียน

Registration Investment

1. ทุนของคนไทย บาท

Capital owned by Thais Baht

2. ทุนของคนต่างด้าว สัญชาติ บาท

Capital owned by Foreigners Nationality Baht

สัญชาติ บาท

Nationality Baht

สัญชาติ บาท

Nationality Baht

3. รวมทุนจดทะเบียน บาท

Total registered capital Baht

สัดส่วนทุนจดทะเบียน คนไทยร้อยละ ต่างด้าร้อยละ

Ratio of Registered Capital : Thai % Foreigner %

3.2 เงินทุนหมุนเวียน

Registered Capital

เงินทุนหมุนเวียน บาท

Registered Capital Baht

4. ความต้องการสาธารณูปโภคและสิ่งอำนวยความสะดวกต่าง ๆ

Requirements for Public utilities and facilities

	ระยะเริ่มต้น Initial Stage (พ.ศ.) Year	เมื่อเต็มโครงการ Full Stage (พ.ศ.) Year
1. ไฟฟ้า Electricity	..... KW	..... KW
2. โทรศัพท์ Telephone	.....เลขหมาย Lines	.....เลขหมาย Lines
3. น้ำประปา Water Supply	.....ลูกบาศก์เมตร/วัน M ³ /Day	.....ลูกบาศก์เมตร/วัน M ³ /Day
4. น้ำดิบ Raw Water	.....ลูกบาศก์เมตร/วัน M ³ /Day	.....ลูกบาศก์เมตร/วัน M ³ /Day
5. การบำบัดน้ำเสีย Waste water treatment	.....ลูกบาศก์เมตร/วัน M ³ /Day	.....ลูกบาศก์เมตร/วัน M ³ /Day
6. การกำจัดขยะมูลฝอย Garbage Disposal	..... /วัน /Day	..... /วัน /Day

	ระยะเริ่มต้น Initial Stage (พ.ศ.) Year	เมื่อเต็มโครงการ Full Stage (พ.ศ.) Year
7. การกำจัดกากอุตสาหกรรม (ระบุชนิด) Industrial waste Disposal (Specify Type) /วัน /Day	..... /วัน /Day	..... /วัน /Day
8. อื่น ๆ Others		

ลงชื่อ ผู้ใช้ที่ดิน
Signed Applicant
(.....)

ข้อพิจารณาของ กนอ.
IEAT's Consideration

☐ อนุมัติ

Approve

☐

ผู้ใช้ที่ดินต้องลงนามในสัญญาเช่าที่ดิน/ สัญญาจะซื้อจะขายที่ดิน และลงนามรับทราบเงื่อนไขใบอนุญาตด้วย
The applicant shall sign in the Land Lease / Use Contract and acknowledge the conditions in the license.

ลงชื่อ
Signed
(.....)

ตำแหน่ง

Position

วันที่ เดือน พ.ศ.

Date Month Year

รายละเอียดเกี่ยวกับการผลิต (กรณีประกอบกิจการอุตสาหกรรม)
Details of Manufacturing Process (In case of industrial operation)

1. วัตถุดิบและวัสดุจำเป็นที่ใช้ในการผลิต (เมื่อเต็มโครงการ)

Raw materials and other materials required in the manufacturing process (full operation)

ลำดับที่ No.	วัตถุดิบ/ วัสดุจำเป็น Raw materials/ Required materials	ปริมาณการใช้ (ต่อปี) Required amount (per year)

2. กระบวนการผลิต (ให้เขียนแผนภูมิแสดงขั้นตอนการผลิตและระบุจุดกำเนิดมลพิษ พร้อมคำอธิบายโดยละเอียด)

Manufacturing process (Draw a process flow chart showing the entire process and points where pollution may originate with detailed description)

.....
.....
.....
.....

3. ปริมาณการผลิต (เมื่อเต็มโครงการ)

Production capacity (full operation)

ลำดับที่ No.	ผลิตภัณฑ์ Product	ปริมาณ (ต่อปี) Amount (per year)	การจำหน่าย (Distribution)	
			ในประเทศ (Thailand)	ต่างประเทศ (Abroad)

4. จำนวนวันทำงานปีละ วัน วันละ ชั่วโมง

Number of working days/year days hours/day hours

ปิดอากร
Place duty stamps here

หนังสือมอบอำนาจ

Power of Attorney

เขียนที่

Made at

วันที่.....เดือน.....พ.ศ.

Date Month Year

โดยหนังสือฉบับนี้ข้าพเจ้า.....

By means of this letter, I

อายุ.....ปี สัญชาติ.....ประกอบอาชีพ.....

Aged years, Nationality Occupation

สำนักงานตั้งอยู่เลขที่.....ตรอก/ซอย.....ถนน.....

whose office is located at No. Soi Street

ตำบล/แขวง.....อำเภอ/เขต.....จังหวัด.....

Sub-District District Province

โทรศัพท์.....โทรสาร.....

Telephone no. Fax

โดย.....ตำแหน่งกรรมการ/หุ้นส่วนผู้จัดการ

By Director/ Manager

ผู้มีอำนาจลงนามผูกพันบริษัท/ ห้างฯ ตามหนังสือรับรองของสำนักงานทะเบียนหุ้นส่วนบริษัทกรุงเทพมหานคร/

having binding authority according to the certificate issued by Bangkok Metropolitan Company and Partnership

สำนักงานพาณิชย์จังหวัด ที่.....ลงวันที่.....เดือน.....พ.ศ.....

Registration office/Provincial Commerce Office No. Dated Month Year

มอบอำนาจให้.....

hereby to authorize

ซึ่งเป็นผู้ถือบัตร.....เลขที่.....อายุ.....ปี เชื้อชาติ.....

Personal Identification document type No. Age years, Race

สัญชาติ.....อยู่บ้านเลขที่.....หมู่ที่.....ตรอก/ซอย.....ถนน.....

Nationality Home address Moo Soi Street

ตำบล/แขวง.....อำเภอ/เขต.....จังหวัด.....

Sub-District District Province

โทรศัพท์.....โทรสาร.....

Tel. Fax.

เป็นผู้มีอำนาจทำการ

to act on my behalf

การใดที่ผู้รับมอบอำนาจกระทำไปในขอบเขตอำนาจนี้ ให้เสมือนว่า ข้าพเจ้าได้กระทำการนั้น
ด้วยตนเอง และข้าพเจ้าขอรับผิดชอบทุกประการ เพื่อเป็นหลักฐาน ข้าพเจ้าได้ลงลายมือชื่อไว้เป็นสำคัญต่อหน้าพยาน

Any Actions performed by the authorized person within the scope of this power of attorney shall be
my responsibility, as if performed by myself in all respects.

ลงชื่อ.....ผู้มอบอำนาจ

Signed Appointor

(.....)

ลงชื่อ.....ผู้มอบอำนาจ

Signed Appointor

(.....)

ลงชื่อ.....ผู้รับมอบอำนาจ

Signed Appointee

(.....)

ลงชื่อ.....พยาน

Signed Witness

(.....)

ลงชื่อ.....พยาน

Signed Witness

(.....)

คำแนะนำ

การยื่นคำขอแจ้งเริ่มประกอบอุตสาหกรรม

- กรอกแบบคำขอให้ถูกต้องและครบถ้วน
 - ชัดข้อความที่ไม่ใช่ออกและกาเครื่องหมาย ☒ ในช่อง ☐ ที่เกี่ยวข้อง
 - หากช่องว่างสำหรับกรอกไม่พอ ให้จัดทำเป็นเอกสารแนบกับคำขอ
 - เอกสารจำนวน 3 ชุด แบบประกอบคำขออนุญาต (เอกสารต้องมีการลงนามรับรองความถูกต้องของผู้มีอำนาจ)
 - สำเนาหนังสือรับรองการจดทะเบียนเป็นนิติบุคคล (ไม่เกิน 6 เดือน นับตั้งแต่วันที่ออกหนังสือ)
 - สำเนาบัตรประจำตัวประชาชน และสำเนาทะเบียนบ้าน หรือสำเนาหนังสือเดินทาง (กรณีเป็นคนต่างด้าว) ของผู้มีอำนาจลงนามแทนนิติบุคคล
 - หนังสือมอบอำนาจ ปิดอากรแสตมป์ตามกฎหมาย (ถ้ามี)
 - สำเนาบัตรประจำตัวประชาชน และสำเนาทะเบียนบ้าน หรือสำเนาหนังสือเดินทาง (กรณีเป็นคนต่างด้าว) ของผู้มอบอำนาจ และผู้รับมอบอำนาจ (กรณีมอบอำนาจ)
 - ผู้ยื่นคำขอ ควรเป็นผู้ที่เข้าใจในสาระสำคัญของเอกสารคำขอเพื่อความถูกต้องและรวดเร็วในการพิจารณา และสรุปผล
 - ในกรณีที่ต้องการคำชี้แจงในการกรอกคำขอ โปรดติดต่อ
 - ฝ่ายบริการผู้ประกอบการ Business Services Department
โทรศัพท์หมายเลข 0-2253-0561
หรือ กองอนุญาตผู้ประกอบการ ฝ่ายบริการผู้ประกอบการ
การนิคมอุตสาหกรรมแห่งประเทศไทย ถนนนิคมมักกะสัน กรุงเทพฯ 10400
โทรศัพท์หมายเลข 0-2253-0561 ต่อ 4402, 4409, 4417, 4417, 4446 FAX 0-2650-0218
หรือสำนักงานนิคมอุตสาหกรรมที่เกี่ยวข้อง
 - ให้ยื่นคำขอที่ฝ่ายบริการผู้ประกอบการ (BUSINESS SERVICES DEPARTMENT)
หรือกองอนุญาตผู้ประกอบการ การนิคมอุตสาหกรรมแห่งประเทศไทย
หรือสำนักงานนิคมอุตสาหกรรมที่เกี่ยวข้อง
- คำแนะนำดังกล่าว เป็นคำแนะนำในเบื้องต้น ทั้งนี้ผู้ยื่นคำขอสามารถอ่านและ download คำแนะนำและรายละเอียดของเอกสารที่ต้องยื่นประกอบคำขอ จากคู่มือการขออนุญาตหรือคู่มือประชาชนตามพระราชบัญญัติการอำนวยความสะดวกในการพิจารณาอนุญาตของทางราชการ พ.ศ. 2558 ได้ที่ www.info.go.th หรือ www.icat.go.th
- This is just the guideline instruction. Customers could read more details and download Application Manual, Citizen's Guide according to the Act to facilitate the approval of the government since 2558 at www.info.go.th or www.icat.go.th

แบบ กนอ. 03/1
หน้า 1 ขง 2 หน้า



สำหรับเจ้าหน้าที่	
เลขที่คำขอ.....	
ผู้รับ.....	
วันที่.....	เวลา.....

คำขอแจ้งเริ่มประกอบอุตสาหกรรม นิคมอุตสาหกรรม.....

วันที่.....เดือน.....พ.ศ.....

1. ผู้ประกอบอุตสาหกรรม

บริษัท/ห้าง.....

1.1 สำนักงานตั้งอยู่เลขที่.....หมู่ที่.....ตรอก/ซอย.....ถนน.....

แขวง/ตำบล.....เขต/อำเภอ.....จังหวัด.....

โทรศัพท์.....โทรสาร.....E-mail.....

1.2 โรงงานตั้งอยู่ในเขตอุตสาหกรรม.....นิคมอุตสาหกรรม.....

แปลงที่ดินเลขที่.....เนื้อที่.....(ไร่-งาน-ครว.)

ตั้งอยู่เลขที่.....หมู่ที่.....ตรอก/ซอย.....ถนน.....

ตำบล/แขวง.....อำเภอ/เขต.....จังหวัด.....

โทรศัพท์.....โทรสาร.....E-mail.....

1.3 ใบอนุญาตให้ใช้ที่ดินและประกอบกิจการ เลขที่.....วันที่.....เดือน.....พ.ศ.....

ทะเบียนผู้ประกอบการเลขที่.....

ประเภทหรือชนิดของโรงงานลำดับที่.....

ประกอบกิจการ.....

.....

2. การแจ้งเริ่มประกอบอุตสาหกรรม

2.1 จะเริ่มประกอบอุตสาหกรรม ภายในวันที่.....เดือน.....พ.ศ.....

2.2 มีกำลังเครื่องจักร.....แรงม้า จำนวนคนงาน.....คน

2.3 กรณีประสงค์จะเริ่มประกอบอุตสาหกรรมบางส่วน (ไม่ครบตามที่ได้รับอนุญาต)

ระบุส่วนที่จะเริ่มประกอบอุตสาหกรรม.....

3. รายการและเอกสารประกอบการแจ้งเริ่ม มีดังต่อไปนี้

1. ข้อมูลทั่วไป

จำนวน 3 ชุด

- ☐ 1.1 ทูน บุคคลากร และการปฏิบัติงาน
☐ 1.2 พระราชบัญญัติที่เกี่ยวข้องกับการพิจารณาอนุมัติ/อนุญาต

2. รายละเอียดการผลิต

จำนวน 3 ชุด

- ☐ 2.1 บัญชีวัตถุดิบและวัสดุจำเป็นที่ใช้ในการผลิต
☐ 2.2 บัญชีผลิตภัณฑ์และวัตถุดิบพลอยได้ ☐ 2.3 กรรมวิธีการผลิต

3. แบบแปลน แผนผัง การติดตั้งเครื่องจักร และวิศวกรผู้รับผิดชอบ จำนวน 3 ชุด

- ☐ 3.1 บัญชีเครื่องจักรที่ใช้ตามลำดับขั้นตอนการผลิต
☐ 3.2 แผนผังแปลงที่ดินแสดงสิ่งปลูกสร้าง อาคารที่จะประกอบอุตสาหกรรม
☐ 3.3 แบบแปลนอาคารโรงงาน และแผนผังแสดงการติดตั้งเครื่องจักร
ขนาดเหมาะสมและถูกต้องตามมาตรฐาน พร้อมด้วยรายละเอียดประกอบ
☐ 3.4 หนังสือรับรองของผู้ประกอบวิชาชีพวิศวกรรมควบคุม สาขาอุตสาหกรรม
หรือสาขาอื่นตามที่กฎหมายกำหนด

4. แบบแปลน รายละเอียดเกี่ยวกับการควบคุมสิ่งแวดล้อมโรงงาน จำนวน 3 ชุด

- ☐ 4.1 แผนผังแปลงที่ดินแสดงที่ตั้ง ระบบการจัดการด้านสิ่งแวดล้อมและความปลอดภัย
☐ ระบบบำบัดน้ำเสีย ☐ ระบบบำบัดมลพิษทางอากาศ ☐ เตาเผาขยะ
☐ กากอุตสาหกรรม ☐ หม้อไอน้ำ มี.....เครื่อง ☐ วัตถุอันตราย
☐ สถานที่เก็บน้ำมันเชื้อเพลิง/ก๊าซปิโตรเลียมเหลว
☐ 4.2 แผนผังแสดงระบบระบายน้ำเสียจากโรงงานสู่อุปกรณ์บำบัดน้ำเสียของนิคมอุตสาหกรรม
☐ 4.3 แบบแปลนรายละเอียดระบบบำบัดน้ำเสีย พร้อมรายการคำนวณ และหนังสือ
รับรองของผู้ประกอบวิชาชีพวิศวกรรมควบคุม
☐ 4.4 แบบแปลนรายละเอียดระบบบำบัดมลพิษทางอากาศ พร้อมรายการคำนวณ
และหนังสือรับรองของผู้ประกอบวิชาชีพวิศวกรรมควบคุม
☐ 4.5 รายละเอียดเกี่ยวกับการจัดการกากอุตสาหกรรม

5. เรื่องอื่น ๆ

จำนวน 3 ชุด

- ☐ 5.1 รายงานข้อมูลการตรวจและการทดสอบความปลอดภัยในการใช้หม้อไอน้ำ
☐ 5.2

ขอรับรองว่ารายละเอียดตามคำขอและเอกสารประกอบการดำเนินการถูกต้องครบถ้วนแล้ว

ลงชื่อ.....ผู้ประกอบอุตสาหกรรม
(.....)

1. ข้อมูลทั่วไป

1.1 ทูน บุคคลากร และการปฏิบัติงาน

1. ปริมาณเงินทุนในการดำเนินการ	
1.1 ที่ดิน.....บาท	1.4 มูลค่าทรัพย์สินอื่น.....บาท
1.2 อาคารและสิ่งปลูกสร้าง.....บาท	1.5 เงินทุนหมุนเวียน.....บาท
1.3 เครื่องจักรและอุปกรณ์.....บาท	รวม (1.1-1.5) .....บาท
2. การขอรับส่งเสริมการลงทุนตามกฎหมายว่าด้วยการส่งเสริมการลงทุน	
<input type="checkbox"/> 2.1 ได้รับการส่งเสริมการลงทุนแล้ว ปี พ.ศ..... ถึง พ.ศ..... และได้แนบสำเนาหนังสือแจ้งมติให้การส่งเสริม หรือบัตรส่งเสริมการลงทุนมาด้วย <input type="checkbox"/> 2.2 อยู่ระหว่างการขอรับการส่งเสริมการลงทุน <input type="checkbox"/> ยังไม่ขอรับการส่งเสริมการลงทุน	
3. จำนวนและตำแหน่งผู้ทำงานในสถานประกอบอุตสาหกรรม	
3.1 เจ้าหน้าที่บริหารและวิชาการ.....คน	3.5 คนงานหญิง (ไม่ใช่ช่างฝีมือ).....คน
3.2 คนงานชาย (ช่างฝีมือ).....คน	3.6 ช่างเทคนิค (จากต่างประเทศ).....คน
3.3 คนงานหญิง (ช่างฝีมือ).....คน	3.7 ช่างฝีมือ (จากต่างประเทศ).....คน
3.4 คนงานชาย (ไม่ใช่ช่างฝีมือ).....คน	3.8 ผู้ชำนาญการจากต่างประเทศ.....คน
รวม (3.1-3.8) .....คน	
4. เวลาทำงาน	
4.1 ทำงานปกติ ตั้งแต่เวลา .....ถึงเวลา.....	
4.2 รวมเวลาทำงาน วันละ .....ชั่วโมง.....กะ	
4.3 วันหยุดงานปีละ .....วัน รวมวันทำงานปีละ.....วัน	

ลงชื่อ.....ผู้ประกอบอุตสาหกรรม
(.....)

1.2 พระราชบัญญัติที่เกี่ยวข้องกับการพิจารณา อนุมัติ/อนุญาต
การประกอบอุตสาหกรรมในนิคมอุตสาหกรรม

1. พระราชบัญญัติโรงงาน พ.ศ. 2535

- ☐ 1.1 หนังสือแจ้งการอนุมัติหรือเห็นชอบจากรัฐมนตรีว่าการกระทรวงอุตสาหกรรม
กรณี เป็นอุตสาหกรรมประเภทนโยบาย ตามมาตรา 32 แห่ง พรบ. โรงงาน
พ.ศ. 2535 และได้แนบสำเนาหนังสือมาด้วยแล้ว
- ☐ 1.2 ไม่เข้าข่ายเป็นอุตสาหกรรมนโยบาย ตามมาตรา 32 แห่ง พรบ. โรงงาน พ.ศ. 2535

2. พระราชบัญญัติส่งเสริมและรักษาคุณภาพสิ่งแวดล้อม พ.ศ.2535

- ☐ 2.1 หนังสือแจ้งผลการเห็นชอบรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อม
กรณีเป็นอุตสาหกรรมประเภทที่ต้องจัดทำรายงาน ตาม พรบ.ส่งเสริมและรักษา
คุณภาพสิ่งแวดล้อม พ.ศ.2535 และได้แนบสำเนาหนังสือมาด้วยแล้ว
- ☐ 2.2 ไม่เข้าข่ายประเภทโรงงานหรือกิจการที่ต้องจัดทำรายงานฯ

3. พระราชบัญญัติควบคุมอาคาร พ.ศ. 2522

- ☐ 3.1 ที่ดินซึ่งโรงงาน เป็นของ
- ☐ 3.2 อาคารโรงงาน เป็นของ
- ☐ 3.3 อาคารโรงงานในแปลงที่ดินมีจำนวน.....หลัง
- ☐ 3.4 การอนุญาตก่อสร้างอาคารโรงงานและการรับรองการก่อสร้างอาคารโรงงาน ตาม
พรบ. ควบคุมอาคาร พ.ศ.2522
- อาคารที่จะเริ่มประกอบอุตสาหกรรม ได้รับอนุญาตก่อสร้างอาคาร ใบอนุญาต
เลขที่.....ลงวันที่.....
 - อาคารโรงงานที่จะเริ่มประกอบอุตสาหกรรมได้รับใบรับรองการก่อสร้างอาคาร
ใบรับรองเลขที่.....ลงวันที่.....
- ☐ 3.5 กรณีอาคารโรงงานอยู่ระหว่างการยื่นคำขอใบรับรองการก่อสร้าง
คำขอที่อ้างถึง เลขที่.....ลงวันที่.....

ลงชื่อ.....ผู้ประกอบอุตสาหกรรม
(.....)

2. รายละเอียดการผลิต

2.1 บัญชีวัตถุดิบและวัสดุจำเป็นที่ใช้ในการผลิต

1. วัตถุดิบและวัสดุ ที่มีต้นกำเนิดภายในประเทศ

ลำดับที่	ชนิดของวัตถุดิบและวัสดุที่ใช้ในการผลิต ระบุชื่อทางเคมี (ถ้ามี)	ปริมาณการใช้ต่อปีและมูลค่า		แหล่งที่มา
		ปริมาณ	มูลค่า (บาท)	
	รวม			

2. วัตถุดิบและวัสดุ ที่นำเข้ามาจากต่างประเทศ

ลำดับที่	ชนิดของวัตถุดิบและวัสดุที่ใช้ในการผลิต ระบุชื่อทางเคมี (ถ้ามี)	ปริมาณการใช้ต่อปีและมูลค่า		แหล่งที่มา (ระบุประเทศ)
		ปริมาณ	มูลค่า (บาท)	
	รวม			

3. อัตราส่วนของมูลค่าวัตถุดิบและวัสดุจำเป็นที่มีต้นกำเนิดในประเทศ กับที่นำเข้ามาจากต่างประเทศ

ลำดับที่	รายการ	คิดเป็นร้อยละ
1	วัตถุดิบและวัสดุจำเป็นต้นกำเนิดในประเทศ	.....
2	วัตถุดิบและวัสดุจำเป็นที่นำเข้ามาจากต่างประเทศ	.....

ลงชื่อ.....ผู้ประกอบอุตสาหกรรม
(.....)

4.3 หนังสือรับรองของผู้ประกอบวิชาชีพวิศวกรรมควบคุม ระบบบำบัดน้ำเสีย

เขียนที่.....

วันที่.....เดือน.....พ.ศ.....

โดยหนังสือฉบับนี้ ข้าพเจ้า.....อายุ.....ปี

ที่ทำงาน.....

ที่อยู่.....

.....โทรศัพท์.....โทรสาร.....

ได้รับอนุญาตให้ประกอบวิชาชีพวิศวกรรมควบคุมประเภท.....สาขา.....

ตามใบอนุญาตเลขทะเบียน.....วันที่ออกใบอนุญาต.....

วันที่ใบอนุญาตหมดอายุ.....และขณะนี้ไม่ได้ถูกเพิกถอนใบอนุญาตให้ประกอบวิชาชีพ

ข้าพเจ้าขอรับรองว่า ข้าพเจ้าเป็นผู้รับผิดชอบตามพระราชบัญญัติวิศวกร พ.ศ. 2542

โดยข้าพเจ้าเป็นผู้ออกแบบระบบบำบัดน้ำเสียของ.....

ในนิคมอุตสาหกรรม.....โดยมี.....

ผู้ได้รับอนุญาตให้ประกอบวิชาชีพวิศวกรรมควบคุมประเภท.....สาขา.....

ตามใบอนุญาตเลขทะเบียน.....เป็นผู้คำนวณโครงสร้าง ควบคุมการก่อสร้าง

ทำรายการก่อสร้างระบบบำบัดน้ำเสีย

1) ข้อมูลในการออกแบบระบบ ดังนี้

1.1 ประเภทของอุตสาหกรรม.....

1.2 ระบบบำบัดน้ำเสียที่ใช้เป็นระบบ.....

1.3 ปริมาณน้ำที่ใช้ในกระบวนการผลิต (Water Supply).....ลบ.ม./วัน

1.4 ปริมาณน้ำเสียที่เข้าระบบ (Flow Rate).....ลบ.ม./วัน

1.5 คุณลักษณะ (Characteristics) ของน้ำเสียก่อนเข้าระบบบำบัด ดังนี้

.....

.....

1.6 คุณลักษณะ (Characteristics) ของน้ำเสียหลังจากผ่านระบบบำบัดแล้ว ดังนี้

.....

.....

2. รายละเอียดเพื่อประกอบการพิจารณา ดังนี้

2.1 แผนผังระบบบำบัดน้ำเสีย ซึ่งประกอบด้วย

2.1.1 แหล่งกำเนิดของน้ำเสียจากกระบวนการผลิต

2.1.2 Flow Diagram ของระบบ

2.1.3 Hydraulic Profile

2.1.4 แผนผังแสดงการติดตั้งระบบตามรูปแบบด้านบน (Top View)

2.1.5 รูปตัดของระบบ (Section)

2.1.6 แนวการเดินเส้นท่อของระบบ (Piping)

2.2 รายการคำนวณการออกแบบระบบ

3. ข้าพเจ้าขอรับรองว่า

3.1 ระบบบำบัดน้ำเสียของ.....

ตามที่แนบมาสามารถบำบัดน้ำเสียให้มีคุณลักษณะเป็นไปตามมาตรฐาน

☐ การนิคมอุตสาหกรรมแห่งประเทศไทย (กนอ.)

☐ กระทรวงอุตสาหกรรม

☐ กระทรวงวิทยาศาสตร์เทคโนโลยีและสิ่งแวดล้อม

3.2 ข้าพเจ้าขอรับผิดชอบในการทดลองเดินระบบเพื่อให้คุณลักษณะของน้ำเสียที่ผ่านระบบเป็นไปตามมาตรฐานข้างต้นโดยจะส่งผลการวิเคราะห์ให้ กนอ.1 ชุด เพื่อประกอบการพิจารณาต่อไป

3.3 ข้าพเจ้ายินดีชี้แจงรายละเอียดเพิ่มเติม กรณี กนอ. เห็นว่ารายละเอียดที่จัดส่งให้ยังไม่สมบูรณ์เพื่อเป็นหลักฐาน ข้าพเจ้าได้ลงลายมือชื่อไว้เป็นสำคัญ

ลงชื่อ.....วิศวกร (ผู้ออกแบบระบบ)

()

ลงชื่อ.....วิศวกร (ผู้คำนวณโครงสร้าง)

()

ลงชื่อ.....ผู้ประกอบการอุตสาหกรรม

()

4.4 หนังสือรับรองของผู้ประกอบวิชาชีพวิศวกรรมควบคุม
ระบบมลพิษทางอากาศ

เขียนที่.....

วันที่.....เดือน.....พ.ศ.....

โดยหนังสือฉบับนี้ ข้าพเจ้า.....อายุ.....ปี
ที่ทำงาน.....
ที่อยู่.....
.....โทรศัพท์.....โทรสาร.....
ได้รับอนุญาตให้ประกอบวิชาชีพวิศวกรรมควบคุมประเภท.....สาขา.....
ตามใบอนุญาตเลขทะเบียน.....วันที่ออกใบอนุญาต.....
วันที่ใบอนุญาตหมดอายุ.....และขณะนี้ไม่ได้ถูกเพิกถอนใบอนุญาตให้ประกอบวิชาชีพ

ข้าพเจ้าขอรับรองว่า ข้าพเจ้าเป็นผู้รับผิดชอบตามพระราชบัญญัติวิศวกร พ.ศ. 2542
โดยข้าพเจ้าเป็นผู้ออกแบบระบบบำบัดมลพิษทางอากาศของ.....
นิคมอุตสาหกรรม.....โดยมี.....
ผู้ได้รับอนุญาตให้ประกอบวิชาชีพวิศวกรรมควบคุมประเภท.....สาขา.....
ตามใบอนุญาตเลขทะเบียน.....เป็นผู้คำนวณโครงสร้าง ควบคุมการก่อสร้าง
ทำรายการก่อสร้างระบบบำบัดมลพิษทางอากาศ

1) ข้อมูลในการออกแบบระบบ ดังนี้

- 1.1 ประเภทของอุตสาหกรรม.....
- 1.2 ระบบบำบัดมลพิษทางอากาศที่ใช้เป็นระบบ.....
- 1.3 มลสารจากกระบวนการผลิตที่ต้องทำการบำบัด (ฝุ่น, กลิ่น, ไอกรด, ไอสารเคมี ฯลฯ)
.....
.....
- 1.4 ประสิทธิภาพของระบบสามารถบำบัดได้.....

2. รายละเอียดเพื่อประกอบการพิจารณา ดังนี้

- 2.1 แผนผังระบบบำบัดมลพิษทางอากาศ ซึ่งประกอบด้วย
 - 2.1.1 แหล่งกำเนิดของมลพิษทางอากาศจากกระบวนการผลิต
 - 2.1.2 Flow Diagram ของระบบ
 - 2.1.3 Hydraulic Profile
- 2.2 รายการคำนวณการออกแบบระบบ

3. ข้าพเจ้าขอรับรองว่า

3.1 ระบบบำบัดมลพิษทางอากาศของ.....

ตามที่แนบมานี้สามารถบำบัดมลพิษทางอากาศให้มีคุณลักษณะเป็นไปตาม

- ☐ พระราชบัญญัติโรงงาน พ.ศ. 2535
☐ พระราชบัญญัติส่งเสริมและรักษาคุณภาพสิ่งแวดล้อมแห่งชาติ พ.ศ. 2535
☐ ประกาศกระทรวงมหาดไทย เรื่อง ความปลอดภัยในการทำงานเกี่ยวกับภาวะแวดล้อม (สารเคมี)

3.2 ข้าพเจ้าขอรับผิดชอบในการทดลองเดินระบบเพื่อให้คุณลักษณะของมลพิษทางอากาศที่ผ่านระบบเป็นไปตามมาตรฐานข้างต้น โดยจะส่งผลการวิเคราะห์ให้ กนอ. 1 ชุด เพื่อประกอบการพิจารณาต่อไป

3.3 ข้าพเจ้ายินดีชี้แจงรายละเอียดเพิ่มเติม กรณี กนอ. เห็นว่ารายละเอียดที่จัดส่งให้ยังไม่สมบูรณ์ เพื่อเป็นหลักฐาน ข้าพเจ้าได้ลงลายมือชื่อไว้เป็นสำคัญ

ลงชื่อ.....วิศวกร (ผู้ออกแบบระบบ)
()
ลงชื่อ.....วิศวกร (ผู้คำนวณโครงสร้าง)
()
ลงชื่อ.....ผู้ประกอบอุตสาหกรรม
()

หนังสือมอบอำนาจ

เขียนที่.....

วันที่.....เดือน.....พ.ศ.....

โดยหนังสือฉบับนี้ ข้าพเจ้า.....

[] เป็นบุคคลธรรมดา อยู่บ้านเลขที่.....หมู่ที่.....ต.รอก/ชอย.....ถนน.....

ตำบล/แขวง.....อำเภอ/เขต.....จังหวัด.....

[] เป็นนิติบุคคลประเภท.....จดทะเบียนเมื่อ.....เลขทะเบียน.....

สำนักงานตั้งอยู่เลขที่.....หมู่ที่.....ต.รอก/ชอย.....ถนน.....

ตำบล/แขวง.....อำเภอ/เขต.....จังหวัด.....

โดย.....ตำแหน่งกรรมการ/หุ้นส่วนผู้จัดการ ผู้มีอำนาจลงนาม

ผูกพันบริษัท/ห้างฯ ตามหนังสือรับรองของสำนักงานทะเบียนหุ้นส่วนบริษัทกรุงเทพมหานคร/สำนักงานพาณิชย์จังหวัด

ที่.....ลงวันที่.....เดือน.....พ.ศ.....

ขอมอบอำนาจให้.....อายุ.....ปี เชื้อชาติ.....

สัญชาติ.....อยู่บ้านเลขที่.....หมู่ที่.....ต.รอก/ชอย.....ถนน.....

ตำบล/แขวง.....อำเภอ/เขต.....จังหวัด.....

โทรศัพท์ (ที่ติดต่อได้สะดวกในเวลาราชการ)โทรสารเป็นผู้มีอำนาจทำการ

[] 1. ขึ้นขอแจ้งเริ่มประกอบอุตสาหกรรม (กนอ.03/1)

[] 2. ขึ้นคำขอแจ้งเริ่มฯ (กนอ.03/1) และรับใบรับแจ้งการประกอบอุตสาหกรรม (กนอ.03/2)

[] 3. ขึ้นคำขอแจ้งเริ่มฯ (กนอ.03/1) รับใบแจ้งการประกอบอุตสาหกรรม (กนอ.03/2) ลงนามในคำขอฯ เอกสารประกอบ

คำขอฯ แก้ไขรายละเอียด หรือ เพิ่มเติมข้อความในการยื่นคำขออนุญาต แทนผู้ขออนุญาตจนแล้วเสร็จ

[] 4.

การใดที่ผู้รับมอบอำนาจกระทำไปภายในขอบอำนาจนี้ให้ถือเสมือนว่าข้าพเจ้าได้กระทำการนั้นด้วยตนเอง และข้าพเจ้า

ขอรับผิดชอบทุกประการ เพื่อเป็นหลักฐานข้าพเจ้าได้ลงลายมือชื่อไว้เป็นสำคัญต่อหน้าพยาน

ลงชื่อ..... ผู้มอบอำนาจ

(.....)

ลงชื่อ..... ผู้มอบอำนาจ

(.....)

ลงชื่อ..... ผู้รับมอบอำนาจ

(.....)

ลงชื่อ..... พยาน

(.....)

ลงชื่อ..... พยาน

(.....)

หมายเหตุ 1. ขีดข้อความที่ไม่ใช่ออก

2. ใส่เครื่องหมาย ✓ ในช่อง [] ที่เกี่ยวข้อง

3. การปิดอากรแสตมป์มอบอำนาจ ให้ปิดอากรแสตมป์ 30 บาท

ภาคผนวก ข-5

บัญชีรายชื่อประเภทอุตสาหกรรมที่เข้ามาดำเนินการภายในพื้นที่โครงการ

No.	Customer
1	AISIN POWERTRAIN (THAILAND) Co., Ltd
2	Fabrinet Co.,Ltd.
3	SAIC MOTOR - CP COMPANY LIMITED (M.1)
4	SAIC MOTOR - CP COMPANY LIMITED (M.2)
5	Toagosei (Thailand) Co., Ltd.
6	FIRST MATERIAL SCIENCE (THAILAND)
7	SGF (Thailand) Co.,Ltd.
8	Grand Tech International (Thailand) Co.,Ltd.
9	Wanda New Material (Thailand) Co.,Ltd.
10	Alliance Laundry (Thailand) Company Limited.
11	Surface Tretment Technology (Thailand) Co.,Ltd.
12	Seah Global (Thailand) Co.,Ltd.
13	Siam Yamato Steel Co.,Ltd.
14	บริษัท ชิง ต่ำ สตีล คอร์ต (ไทยแลนด์) จำกัด
15	Canyon Asia (Thailand) Co.,Ltd.
16	Henneway (Thailand) Co.,Ltd.
17	Ocean Catch Co.,Ltd.
18	Linak Apac Co.,Ltd.
19	San Ho Precision Industrial Co.,Ltd.
20	Sanko Plastics (Thailand) Co.,Ltd.
21	APEX International (Thailand) Co.,Ltd.
22	BROSE (THAILAND) Co.,Ltd.
23	PRUSSIA (ASIA) Co.,Ltd.
24	SEITEK INTERNATIONAL (Thailand) Co.,Ltd.
25	JOFO NONWOVEN (THAILAND) CO.,LTD.
26	LUOBANG KITCHEN & BATH (THAILAND) COMPANY LIMITED.
27	TYNO HARDWARE PRODUCT (THAILAND) COMPANY LIMITED.
28	JALON (THAILAND) CO.,LTD.
29	TYMPHANY ACOUSTIC TECHNOLGY (THAILAND) CO.,LTD.
30	Primax Electronics (Thailand) Co.,Ltd.
31	YINLEI ELECTRIC (THAILAND) CO.,LTD.
32	TOMIKIU POLYMER (THAILAND) COMPANY LIMITED
33	Signode Systems(Thailand) Co.,Ltd.
34	Enrich Industrial (Thai) Co., Ltd.
35	CHANG YUE INDUSTRIAL (THAILAND) CO., LTD.

No.	Customer
36	ALILA HOME (THAILAND) CO., LTD.
37	CHOENJIAN FABRIC (THAILAND) CO.,LTD
38	FLOOR MASTERS (THAILAND) CO., LTD.
39	KING YUAN DAR (THAILAND) CO., LTD.
40	INFORM-UMH (THAILAND) CO., LTD.
41	DILIH I INDUSTRY (THAILAND) CO., LTD
42	JOINHANDS INJECTION SYSTEM (THAILAND) COMPANY LIMITED.
43	YASUN ABRASIVES (THAILAND) COMPANY LIMITED
44	SAKURA PRINTING TECHNOLOGY COMPANY LIMITED _H.16
45	YASUN ABRASIVES (THAILAND) COMPANY LIMITED _G.36A,G.36B,G.36C,G.36D,G.37A,G.37B
46	LEADING WHEEL CO.,LTD.
47	Kingclean Electric (Thailand) Co.,Ltd. G.18
48	EASTSEA INTERNATIONAL (THAILAND) COMPANY LIMITED

ภาคผนวก ข-6

ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้งของโรงงาน



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469811
Date Received : Jul 11, 2024
Date Reported : Jul 16, 2024
Report Number : 3030630-1

Page 1 of 2

Sample Number	2469811-1						
Sample Date	Jul 11, 2024 11:10 AM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_001_2559	Plot	G.1,G.72	Site	AISIN POWERTRAIN (THAILAND) CO.,LTD.		
Date Analysis Commenced	Jul 11, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, a lot of solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	25.4	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	85	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.5	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	884	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	52	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyikau มอดุสสาโรจ 3-323-9-0005

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
มอดุสสาโรจ 3-323-9-9449

Approved by

Dej Changchon
Senior Manager
มอดุสสาโรจ 3-323-9-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469811
Date Received : Jul 11, 2024
Date Reported : Jul 16, 2024
Report Number : 3030630-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
มอดุสสาโรจ 3-323-9-9449

Approved by

Dej Changchon
Senior Manager
มอดุสสาโรจ 3-323-9-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.

ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469841
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3037047-1

Page 1 of 2

Sample Number	2469841-1						
Sample Date	Jul 08, 2024 2:58 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2566	Plot	G.23	Site	ALILA HOME (THAILAND) CO.,LTD.		
Date Analysis Commenced	Jul 08, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	142	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	343	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.7	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	564	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	48	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Wasan Kinnunti มอดุสสาโรจ 3-323-9-0019

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas
Photchanas Seeda
Scientist (4)
มอดุสสาโรจ 3-323-9-9446

Approved by

Dej Changchon
Senior Manager
มอดุสสาโรจ 3-323-9-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469841
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3037047-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas
Photchanas Seeda
Scientist (4)
มอดุสสาโรจ 3-323-9-9446

Approved by

Dej Changchon
Senior Manager
มอดุสสาโรจ 3-323-9-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2469816

Date Received : Jul 04, 2024

Date Reported : Jul 10, 2024

Report Number : 3030641-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Sample Number 2469816-1
Sample Date Jul 04, 2024 2:14 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_003_2562
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	22.8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	69	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	360	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokou เสรสนอน ขุยยอกู >323-n-0005

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chonticha Subongkroh
Scientist (3)
เบญจมาภรณ์ >323-n-9449

Approved by

Dej Changchon
Senior Manager
เบญจมาภรณ์ >323-n-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2469816

Date Received : Jul 04, 2024

Date Reported : Jul 10, 2024

Report Number : 3030641-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory | Monthly

Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chonticha Subongkroh
Scientist (3)
เบญจมาภรณ์ >323-n-9449

Approved by

Dej Changchon
Senior Manager
เบญจมาภรณ์ >323-n-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2469827

Date Received : Jul 08, 2024

Date Reported : Jul 15, 2024

Report Number : 3030664-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Sample Number 2469827-1
Sample Date Jul 08, 2024 11:09 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2564
Date Analysis Commenced Jul 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	54.4	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	185	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.1	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2476	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Wasan Kintunt เสรสนอน >323-n-0019

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas
Photchanas Seeda
Scientist (4)
เบญจมาภรณ์ >323-n-9446

Approved by

Dej Changchon
Senior Manager
เบญจมาภรณ์ >323-n-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2469827

Date Received : Jul 08, 2024

Date Reported : Jul 15, 2024

Report Number : 3030664-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory | Monthly

Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas
Photchanas Seeda
Scientist (4)
เบญจมาภรณ์ >323-n-9446

Approved by

Dej Changchon
Senior Manager
เบญจมาภรณ์ >323-n-9442

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Analysis / Test Report

TESTING

Lot ID: 2469828

Date Received : Jul 11, 2024

Date Reported : Jul 16, 2024

Report Number : 3030673-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 2469828-1
Sample Date Jul 11, 2024 10:50 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2564
Date Analysis Commenced Jul 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	13.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	47	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	548	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyokouai verduarsaen 3-323-n-0005

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
verduarsaen 3-323-n-9449

Approved by

Dej Changchon
Senior Manager
verduarsaen 3-323-n-9442

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5327-88/2469828

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Analysis / Test Report

TESTING

Lot ID: 2469828

Date Received : Jul 11, 2024

Date Reported : Jul 16, 2024

Report Number : 3030673-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
verduarsaen 3-323-n-9449

Approved by

Dej Changchon
Senior Manager
verduarsaen 3-323-n-9442

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5327-88/2469828

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Analysis / Test Report

TESTING

Lot ID: 2469821

Date Received : Jul 08, 2024

Date Reported : Jul 15, 2024

Report Number : 3030651-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 2469821-1
Sample Date Jul 08, 2024 10:59 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2562
Date Analysis Commenced Jul 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	29	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	228	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Wasan Kintun 3-323-n-0019

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
verduarsaen 3-323-n-9449

Approved by

Dej Changchon
Senior Manager
verduarsaen 3-323-n-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.

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5327-88/2469828

RIGHT SOLUTIONS RIGHT PARTNERS

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Analysis / Test Report

TESTING

Lot ID: 2469821

Date Received : Jul 08, 2024

Date Reported : Jul 15, 2024

Report Number : 3030651-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
verduarsaen 3-323-n-9449

Approved by

Dej Changchon
Senior Manager
verduarsaen 3-323-n-9442

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5327-88/2469828

RIGHT SOLUTIONS RIGHT PARTNERS

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2469840

Date Received : Jul 04, 2024

Date Reported : Jul 10, 2024

Report Number : 3037045-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Sample Number 2469840-1
Sample Date Jul 04, 2024 2:07 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2566
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Page 1 of 2

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	17.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	75	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	596	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	24	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokouai เสร็จสิ้นการสุ่มตัวอย่าง 3-323-0-0005

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chonticha Subongkoch

Scientist (3)
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Approved by

Dej Changchon

Senior Manager
เบญจมาศพร 3-323-0-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2469840

Date Received : Jul 04, 2024

Date Reported : Jul 10, 2024

Report Number : 3037045-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory | Monthly

Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Page 2 of 2

Technical Management

Chonticha Subongkoch

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Senior Manager
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Analysis / Test Report

TESTING

No.0042

Lot ID: 2469844

Date Received : Jul 04, 2024

Date Reported : Jul 10, 2024

Report Number : 3037050-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Sample Number 2469844-1
Sample Date Jul 04, 2024 9:48 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2566
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Page 1 of 2

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	3.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	6.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	192	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokouai เสร็จสิ้นการสุ่มตัวอย่าง 3-323-0-0005

Remark :
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Technical Management

Chonticha Subongkoch

Scientist (3)
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Approved by

Dej Changchon

Senior Manager
เบญจมาศพร 3-323-0-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2469844

Date Received : Jul 04, 2024

Date Reported : Jul 10, 2024

Report Number : 3037050-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory | Monthly

Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Page 2 of 2

Technical Management

Chonticha Subongkoch

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469839
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3037042-1

Page 1 of 2

Sample Number	2469839-1						
Sample Date	Jul 04, 2024 2:27 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_001_2566	Plot	H.5	Site	Enrich Industrial (Thai) Co., Ltd.		
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	23.9	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	52	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.5	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	376	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyokouai เสงี่ยมสงี่ยม 3-323-9-0005

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

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Chonticha Subongkroh
Scientist (3)
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Approved by

Dej Changchon

Senior Manager
เบญจมาศพร 3-323-9-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469839
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3037042-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

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Scientist (3)
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Approved by

Dej Changchon

Senior Manager
เบญจมาศพร 3-323-9-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469812
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 303634-1

Page 1 of 2

Sample Number	2469812-1						
Sample Date	Jul 04, 2024 3:38 PM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_001_2560	Plot	H.1	Site	Fabrinet Co., Ltd.		
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	53.0	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	109	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.7	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	472	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	49	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyokouai เสงี่ยมสงี่ยม 3-323-9-0005

Remark :
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Technical Management

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Approved by

Dej Changchon

Senior Manager
เบญจมาศพร 3-323-9-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469812
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 303634-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Chonticha Subongkroh
Scientist (3)
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Approved by

Dej Changchon

Senior Manager
เบญจมาศพร 3-323-9-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2469803

Date Received : Jul 11, 2024

Date Reported : Jul 16, 2024

Report Number : 3030537-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory I Random Check

Project Location : WHA ESIE 2

Sample Number 2469803-1
Sampled Date Jul 11, 2024 10:25 AM
Sample Description Wastewater
Contract ID L_HESIE2_001_2561 Plot G.48, G.50, G.52, G.54 Site FIRST MATERIAL SCIENCE (THAILAND) LTD.
Date Analysis Commenced Jul 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	32.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	100	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	60	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	56	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN *	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Water analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2469803

Date Received : Jul 11, 2024

Date Reported : Jul 16, 2024

Report Number : 3030537-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory I Random Check

Project Location : WHA ESIE 2

Sample Number 2469803-1
Sampled Date Jul 11, 2024 10:25 AM
Sample Description Wastewater
Contract ID L_HESIE2_001_2561 Plot G.48, G.50, G.52, G.54 Site FIRST MATERIAL SCIENCE (THAILAND) LTD.
Date Analysis Commenced Jul 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 D	Rayong
Temperature *	Degree C	-	-	29.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	300	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	23	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyoksu โทรศัพท์ +323-94005, Thanassoon Namakunna โทรศัพท์ +204-940101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
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Approved by

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2469803

Date Received : Jul 11, 2024

Date Reported : Jul 18, 2024

Report Number : 3030537-2

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory I Random Check

Project Location : WHA ESIE 2

Sample Number 2469803-1
Sampled Date Jul 11, 2024 10:25 AM
Sample Description Wastewater
Contract ID L_HESIE2_001_2561 Plot G.48, G.50, G.52, G.54 Site FIRST MATERIAL SCIENCE (THAILAND) LTD.
Date Analysis Commenced Jul 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.05	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.008	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

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Approved by

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2469803

Date Received : Jul 11, 2024

Date Reported : Jul 18, 2024

Report Number : 3030537-2

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory I Random Check

Project Location : WHA ESIE 2

Sample Number 2469803-1
Sampled Date Jul 11, 2024 10:25 AM
Sample Description Wastewater
Contract ID L_HESIE2_001_2561 Plot G.48, G.50, G.52, G.54 Site FIRST MATERIAL SCIENCE (THAILAND) LTD.
Date Analysis Commenced Jul 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.12	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyoksu โทรศัพท์ +323-94005, Thanassoon Namakunna โทรศัพท์ +204-940101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chanatt 2L
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Section Head
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Approved by

Kanokorn Anek
Assistant General Manager
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

TESTING
No.0009
Lot ID: 2469803
Date Received : Jul 11, 2024
Date Reported : Jul 19, 2024
Report Number : 3030537-3

Page 1 of 1

Sample Number	2469803-1						
Sample Date	Jul 11, 2024 10:25 AM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_001_2561	Plot	G.48, G.50, G.52, G.54	Site	FIRST MATERIAL SCIENCE (THAILAND) LTD.		
Date Analysis Commenced	Jul 12, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.31	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksaui , Thanasoun Namakunna

Remark :
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Approved by

Chanatt L.
Chanattagarn Inthum
Section Head

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469843
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030408-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkoch
Scientist (3)
โทรศัพท์ 3-323-9449

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469843
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030408-1

Page 1 of 2

Sample Number	2469843-1						
Sample Date	Jul 04, 2024 1:50 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_004_2566 Jul 04, 2024	Plot	H.31	Site	FLOOR MASTERS (THAILAND) CO.,LTD.		
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	57.7	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	148	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	420	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	37	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksaui โทรศัพท์ 3-323-94005

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Technical Management

Chontichak
Chonticha Subongkoch
Scientist (3)
โทรศัพท์ 3-323-9449

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469843
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030408-1

Page 1 of 2

Sample Number	2469815-1						
Sampled Date	Jul 04, 2024 10:55 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_002_2562	Plot	H.26 H.33	Site	Grand Tech International (Thailand) Co.,Ltd.		
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	6.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	35	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	384	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksaui โทรศัพท์ 3-323-94005

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Technical Management

Chontichak
Chonticha Subongkoch
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โทรศัพท์ 3-323-9449

Approved by

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Senior Manager
โทรศัพท์ 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469815
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030640-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Chonticha Subongkoch
Scientist (3)
โทรศัพท์ ๖323-๙449

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469822
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030653-1

Page 1 of 2

Sample Number 2469822-1
Sampled Date Jul 08, 2024 11:35 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2563 Plot G-45 Site Henneway (Thailand) Co.,Ltd.
Date Analysis Commenced Jul 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	36.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	156	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	172	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	53	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Wasan Kirunti โทรศัพท์ ๖323-๙0019

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Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
โทรศัพท์ ๖323-๙449

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469822
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030653-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
โทรศัพท์ ๖323-๙449

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469845
Date Received : Jul 11, 2024
Date Reported : Jul 16, 2024
Report Number : 30307051-1

Page 1 of 2

Sample Number 2469845-1
Sampled Date Jul 11, 2024 1:55 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2566 Plot G-43 Site INFORM-UMH (THAILAND) CO.,LTD.
Date Analysis Commenced Jul 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	396	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	25	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksuai โทรศัพท์ ๖323-๙0005

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Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
โทรศัพท์ ๖323-๙449

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469845
Date Received : Jul 11, 2024
Date Reported : Jul 16, 2024
Report Number : 3037051-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkroh
Scientist (3)
โทรศัพท์ 323-9449

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-9442

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5327480 AL_GL-02 (12-5649)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469836
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030698-1

Page 1 of 2

Sample Number 2460836-1
Sampled Date Jul 08, 2024 3:26 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_003_2565 Plot G.29A, G.29B, G.29C Site Jalon (Thailand) Co.,Ltd.
Date Analysis Commenced Jul 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	128	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Wasan Kirunti โทรศัพท์ 323-9-0019

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
โทรศัพท์ 323-9446

Approved by

Dej Changchon

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Senior Manager
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5327480 AL_GL-02 (12-5799)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469836
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030698-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Photchana Seeda
Scientist (4)
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Approved by

Dej Changchon

Dej Changchon
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469831
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030682-1

Page 1 of 2

Sample Number 2460831-1
Sampled Date Jul 08, 2024 2:50 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2564 Plot G.62A, G.62B Site Jofo Nonwoven (Thailand) Co.,Ltd.
Date Analysis Commenced Jul 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	6.7	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	30	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	156	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Wasan Kirunti โทรศัพท์ 323-9-0019

Remark :
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Technical Management

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Approved by

Dej Changchon

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Senior Manager
โทรศัพท์ 323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469831
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030682-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Scientist (4)
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Approved by

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Dej Changchon
Senior Manager
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469848
Date Received : Jul 11, 2024
Date Reported : Jul 16, 2024
Report Number : 3037055-1

Page 1 of 2

Sample Number 2460848-1
Sampled Date Jul 11, 2024 10:20 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2567 Plot G.33A, G.33B, G.33C Site JOINHANDS INJECTION SYSTEM (THAILAND) COMPANY LIMITED
Date Analysis Commenced Jul 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	94.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	228	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	23	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	352	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	66	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksuai เบอร์โทร 323-9442

Remark :
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Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
เบอร์โทร 323-9449

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบอร์โทร 323-9442

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469848
Date Received : Jul 11, 2024
Date Reported : Jul 16, 2024
Report Number : 3037055-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Scientist (3)
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Senior Manager
เบอร์โทร 323-9442

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469854
Date Received : Jul 11, 2024
Date Reported : Jul 16, 2024
Report Number : 3037071-1

Page 1 of 2

Sample Number 2460854-1
Sampled Date Jul 11, 2024 1:45 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2567 Plot G.18 Site Kingdean Electric (Thailand) Co.,Ltd.
Date Analysis Commenced Jul 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	8.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	156	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	27	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksuai เบอร์โทร 323-9442

Remark :
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Technical Management

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Scientist (3)
เบอร์โทร 323-9449

Approved by

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Dej Changchon
Senior Manager
เบอร์โทร 323-9442

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469854
Date Received : Jul 11, 2024
Date Reported : Jul 16, 2024
Report Number : 3037071-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469849
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3037057-1

Page 1 of 2

Sample Number 2460849-1
Sampled Date Jul 08, 2024 3:07 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2567 Plot G.22 Site LEADING WHEEL CO.,LTD.
Date Analysis Commenced Jul 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	64.9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	193	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	9	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	404	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	35	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Wasan Kirunti โทรศัพท์ 323-9-0019

Remark :
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Technical Management

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Approved by

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Senior Manager
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469849
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3037057-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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5/Report_AL_GL.net (10-5949)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469824
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030658-1

Page 1 of 2

Sample Number 2460824-1
Sampled Date Jul 08, 2024 11:27 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2564 Plot G.51 Site Linak Apac Co.,Ltd.
Date Analysis Commenced Jul 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	181	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	691	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	99	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.1	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	484	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	83	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Wasan Kirunti โทรศัพท์ 323-9-0019

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
โทรศัพท์ 323-9446

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469824
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030658-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
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Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469830
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030678-1

Page 1 of 2

Sample Number 2469830-1
Sampled Date Jul 08, 2024 2:40 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2564 Plot G.16 Site Luobang Kitchen&Bath (Thailand) Co.,Ltd.
Date Analysis Commenced Jul 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	22.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	96	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	184	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	23	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Wasan Kirunti โทรศัพท์ 323-9-0019

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
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Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-9442

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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469830
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030678-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Approved by

Dej Changchon

Dej Changchon
Senior Manager
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469823
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030654-1

Page 1 of 2

Sample Number 2469823-1
Sampled Date Jul 08, 2024 3:15 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2563 Plot G.20 Site OCEANCASH (THAILAND) Co.,Ltd.
Date Analysis Commenced Jul 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	51.8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	170	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	8	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	344	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	42	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Wasan Kirunti โทรศัพท์ 323-9-0019

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ 323-9446

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-9442

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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469823
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030654-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Photchanas Seeda
Scientist (4)
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Approved by

D. Chongchon

Dej Changchon
Senior Manager
เบอร์โทร 323-9442

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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469834
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030694-1

Page 1 of 2

Sample Number 2469834-1
Sampled Date Jul 04, 2024 11:14 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2565 Plot 1.2A Site Primax Electronics (Thailand) Co., Ltd.
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	50.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	295	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	460	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	135	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksuai เบอร์โทร 323-9-0005

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
เบอร์โทร 323-9449

Approved by

D. Chongchon

Dej Changchon
Senior Manager
เบอร์โทร 323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469834
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030694-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Chonticha Subongkoch
Scientist (3)
เบอร์โทร 323-9449

Approved by

D. Chongchon

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Senior Manager
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469829
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030676-1

Page 1 of 2

Sample Number 2469829-1
Sampled Date Jul 04, 2024 2:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2564 Plot H-30 Site Prussia (Asia) Co., Ltd.
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	13.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	58	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	312	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	36	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksuai เบอร์โทร 323-9-0005

Remark :
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Technical Management

Chontichak

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Scientist (3)
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Approved by

D. Chongchon

Dej Changchon
Senior Manager
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469829
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030676-1

Page 2 of 2

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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5304901_RL_GL-01 (4-08PM)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469813
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3045939-1

Page 1 of 2

Sample Number 2469813-1
Sampled Date Jul 08, 2024 10:17 AM
Sample Description Wastewater
Contract ID L_HESIE2_002_2560 Plot H.8 Site SAIC MOTOR-CP CO.,LTD.
Date Analysis Commenced Jul 08, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	13	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	13	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	6.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

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5304901_RL_GL-01 (4-08PM)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469813
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3045939-1

Page 2 of 2

Sample Number 2469813-1
Sampled Date Jul 08, 2024 10:17 AM
Sample Description Wastewater
Contract ID L_HESIE2_002_2560 Plot H.8 Site SAIC MOTOR-CP CO.,LTD.
Date Analysis Commenced Jul 08, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	31.6	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	440	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Wasan Kintum โทรศัพท์ +323-9-0019 , Kardbunkit Kitsupavanit โทรศัพท์ +204-9-0001

Remarks :
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Approved by

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5307-809 ENGL

5304901_RL_GL-01 (4-08PM)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

TESTING
No.0009
Lot ID: 2469813
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3045939-2

Page 1 of 2

Sample Number 2469813-1
Sampled Date Jul 08, 2024 10:17 AM
Sample Description Wastewater
Contract ID L_HESIE2_002_2560 Plot H.8 Site SAIC MOTOR-CP CO.,LTD.
Date Analysis Commenced Jul 09, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.002	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.38	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

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Approved by

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Assistant General Manager
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5307-809 ENGL

5304901_RL_GL-01 (4-08PM)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Lot ID: 2469813
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3045939-2

Page 2 of 2

Sample Number	2469813-1						
Sampled Date	Jul 08, 2024 10:17 AM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_002_2560	Plot	H.8		Site	SAIC MOTOR-CP CO.,LTD.	
Date Analysis Commenced	Jul 09, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.13	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.04	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Wasan Kinunti รหัสงานรณร 323-ร-0019, Kardbundit Kitisupavanit รหัสงานรณร 324-ร-0001

Remark :
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Technical Management
Sawitree N.
Sawitree Nonsangam
Manager
รหัสงานรณร 324-ร-0007

Approved by
Kan Korn Anek
Kan Korn Anek
Assistant General Manager
รหัสงานรณร 324-ร-0004

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Lot ID: 2469813
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3045939-3

Page 1 of 1

Sample Number	2469813-1						
Sampled Date	Jul 08, 2024 10:17 AM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_002_2560	Plot	H.8		Site	SAIC MOTOR-CP CO.,LTD.	
Date Analysis Commenced	Jul 09, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.14	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	1.5	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Wasan Kinunti, Kardbundit Kitisupavanit

Remark :
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Analysis / Test Report

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P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

Lot ID: 2469825
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030660-1

Page 2 of 2

Sample Number	2469825-1						
Sampled Date	Jul 04, 2024 10:00 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_002_2564	Plot	H.36		Site	San Ho Precision Industrial Co.,Ltd.	
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	8.3	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	34	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.7	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	204	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	27	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoon Khuyoksu รหัสงานรณร 323-ร-0005

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Technical Management
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Chontichak Subongkoch
Scientist (3)
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Approved by
Dej Changchon
Dej Changchon
Senior Manager
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P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

Lot ID: 2469825
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030660-1

Page 2 of 2

Sample Number	2469825-1						
Sampled Date	Jul 04, 2024 10:00 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_002_2564	Plot	H.36		Site	San Ho Precision Industrial Co.,Ltd.	
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	8.3	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	34	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.7	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	204	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	27	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoon Khuyoksu รหัสงานรณร 323-ร-0005

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Technical Management
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Scientist (3)
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Approved by
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Dej Changchon
Senior Manager
รหัสงานรณร 323-ร-9442

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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469826
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030662-1

Page 1 of 2

Sample Number	2469826-1						
Sample Date	Jul 08, 2024 11:20 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2564	Plot	G-53	Site	Sanko Plastics (Thailand) Co.,Ltd.		
Date Analysis Commenced	Jul 08, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	4.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	29	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.1	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	236	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Wasan Kinnunti เวชณานนท์ >323-9-0019

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Approved by

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เวชณานนท์ >323-9-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469826
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030662-1

Page 2 of 2

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Technical Management

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Photchanas Seeda
Scientist (4)
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Approved by

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Senior Manager
เวชณานนท์ >323-9-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469818
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030643-1

Page 1 of 2

Sample Number	2469818-1						
Sample Date	Jul 04, 2024 9:57 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_005_2562	Plot	H-35	Site	SEAH GLOBAL (THAILAND) CO.,LTD.		
Date Analysis Commenced	Jul 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	337	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	663	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	10	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	692	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	189	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyokasai เวชณานนท์ >323-9-0005

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Technical Management

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Senior Manager
เวชณานนท์ >323-9-9442

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469818
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030643-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkoch
Scientist (3)
เวชณานนท์ >323-9-9449

Approved by

Dej Changchon
Senior Manager
เวชณานนท์ >323-9-9442

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469832
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030685-1

Page 1 of 2

Sample Number	2469832-1						
Sample Date	Jul 08, 2024 2:32 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_009_2564	Plot	G.17,G.15,G.12A	Site	SEITEK INTERNATIONAL (THAILAND) CO.,LTD.		
Date Analysis Commenced	Jul 08, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	100	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	25	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Wasan Kinnunti รหัสเอกสารที่ >323-0019

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสเอกสารที่ >323-0446

Approved by

Dej Changchon
Senior Manager
รหัสเอกสารที่ >323-0442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469832
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030685-1

Page 2 of 2

Sample Number	2469832-1						
Sample Date	Jul 08, 2024 2:32 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_009_2564	Plot	G.17,G.15,G.12A	Site	SEITEK INTERNATIONAL (THAILAND) CO.,LTD.		
Date Analysis Commenced	Jul 08, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	100	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	25	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Wasan Kinnunti รหัสเอกสารที่ >323-0019

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสเอกสารที่ >323-0446

Approved by

Dej Changchon
Senior Manager
รหัสเอกสารที่ >323-0442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469804
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3030546-1

Page 1 of 2

Sample Number	2469804-1						
Sample Date	Jul 01, 2024 3:01 PM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_002_2561	Plot	G.28	Site	SGF (THAILAND) CO.,LTD.		
Date Analysis Commenced	Jul 01, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	33.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	129	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	117	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	116	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN *	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Chontichak
Chontiche Subongkoch
Scientist (3)
รหัสเอกสารที่ >323-0449

Approved by

Dej Changchon
Senior Manager
รหัสเอกสารที่ >323-0442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469804
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3030546-1

Page 2 of 2

Sample Number	2469804-1						
Sample Date	Jul 01, 2024 3:01 PM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_002_2561	Plot	G.28	Site	SGF (THAILAND) CO.,LTD.		
Date Analysis Commenced	Jul 01, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.09	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	32.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	340	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	30	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Surawit Narapong รหัสเอกสารที่ >323-0011, Smart Khumphelee รหัสเอกสารที่ >204-0084

Remark :
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The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chontiche Subongkoch
Scientist (3)
รหัสเอกสารที่ >323-0449

Approved by

Dej Changchon
Senior Manager
รหัสเอกสารที่ >323-0442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Lot ID: 2469804
No.0009
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3030546-2

Page 1 of 2

Sample Number 2469804-1
Sample Date Jul 01, 2024 3:01 PM
Sample Description Wastewater
Contract ID L_HESIE2_002_2561 Plot G.28 Site SGF (THAILAND) CO.,LTD.
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.06	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.02	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.
Savitree Naisangam
Manager
เบอร์โทรศัพท์ ๖-๒๐4-๖-๐๐๐7

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
เบอร์โทรศัพท์ ๖-๒๐4-๖-๐๐๐4

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Lot ID: 2469804
No.0009
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3030546-2

Page 2 of 2

Sample Number 2469804-1
Sample Date Jul 01, 2024 3:01 PM
Sample Description Wastewater
Contract ID L_HESIE2_002_2561 Plot G.28 Site SGF (THAILAND) CO.,LTD.
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.008	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	0.0006	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.62	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Naropong เบอร์โทรศัพท์ ๖-323-๖-0011, Samart Khumpluee เบอร์โทรศัพท์ ๖-๒๐4-๖-๐๐84

Remark :

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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Savitree N.
Savitree Naisangam
Manager
เบอร์โทรศัพท์ ๖-๒๐4-๖-๐๐๐7

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
เบอร์โทรศัพท์ ๖-๒๐4-๖-๐๐๐4

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Lot ID: 2469804
No.0009
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3030546-3

Page 1 of 1

Sample Number 2469804-1
Sample Date Jul 01, 2024 3:01 PM
Sample Description Wastewater
Contract ID L_HESIE2_002_2561 Plot G.28 Site SGF (THAILAND) CO.,LTD.
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.36	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Naropong, Samart Khumpluee

Remark :

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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Approved by

Savitree N.
Savitree Naisangam
Manager

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

Lot ID: 2469819
No.0042
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030644-1

Page 1 of 2

Sample Number 2469819-1
Sample Date Jul 04, 2024 11:24 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2562 Plot I-3, I-38 Site SIAM YAMATO STEEL COMPANY LIMITED.
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	11.7	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	47	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.6	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	364	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyoksu เบอร์โทรศัพท์ ๖-323-๖-0005

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chonticha K.
Chonticha Subongkroh
Scientist (3)
เบอร์โทรศัพท์ ๖-323-๖-9449

Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ ๖-323-๖-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469819
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030644-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
โทรศัพท์ 323-94949

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-94442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469838
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3037041-1

Page 1 of 2

Sample Number 2469838-1
Sampled Date Jul 08, 2024 2:16 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2565 Plot G.11 Site SIGNODE (Thailand) LTD.
Date Analysis Commenced Jul 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	8.8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	52	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *		-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	440	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Wasan Kirunti โทรศัพท์ 323-9-0019

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas

Photchana Seeda
Scientist (4)
โทรศัพท์ 323-94446

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-94442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469838
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3037041-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas

Photchana Seeda
Scientist (4)
โทรศัพท์ 323-94446

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-94442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469817
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030642-1

Page 1 of 2

Sample Number 2469817-1
Sampled Date Jul 08, 2024 2:25 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2562 Plot G.12 Site Surface Tretment Technology (Thailand) Co.,Ltd.
Date Analysis Commenced Jul 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	32.7	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	118	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *		-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	220	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	38	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Wasan Kirunti โทรศัพท์ 323-9-0019

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
โทรศัพท์ 323-94449

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-94442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469817
Date Received : Jul 08, 2024
Date Reported : Jul 15, 2024
Report Number : 3030642-1

Page 2 of 2

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
โทรศัพท์ ๖-323-๙449

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖-323-๙442

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5-Report_AL_G-01 (3-0849)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469805
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3036964-1

Page 1 of 2

Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	29	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	8	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	8	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN *	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
โทรศัพท์ ๖-323-๙449

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖-323-๙442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469805
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3036964-1

Page 2 of 2

Sample Number	2469805-1						
Sampled Date	Jul 01, 2024 2:45 PM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_003_2561 Plot G.3, G.4, G.5 Site Toagoel (Thailand) Co.,Ltd						
Date Analysis Commenced	Jul 01, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	<0.01	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	36.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	295	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawat Narapong โทรศัพท์ ๖-323-๙0111, Samart Khumphilee โทรศัพท์ ๖-204-๙0084

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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
โทรศัพท์ ๖-323-๙449

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖-323-๙442

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5-Report_AL_G-01 (3-0849)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

TESTING
No.0009
Lot ID: 2469805
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3036964-2

Page 1 of 2

Page 1 of 1

Sample Number	2469805-1						
Sampled Date	Jul 01, 2024 2:45 PM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_003_2561 Plot G.3, G4, G.5 Site Toagoel (Thailand) Co.,Ltd						
Date Analysis Commenced	Jul 02, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.11	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.08	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.0006	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N

Savitree Naisangam
Manager
โทรศัพท์ ๖-204-๙0007

Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
โทรศัพท์ ๖-204-๙0004

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Lot ID: 2469805
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3036964-2

Page 2 of 2

Sample Number	2469805-1					
Sampled Date	Jul 01, 2024 2:45 PM					
Sample Description	Wastewater					
Contract ID	L_HESIE2_003_2561	Plot	G.3, G4, G.5	Site	Toagoel (Thailand) Co.,Ltd	
Date Analysis Commenced	Jul 02, 2024					
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Physical Property	Yellow, a lot of odour, some solid and turbid					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method
Metals Testing						
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Zinc	mg/L	0.003	0.005	0.89	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Surawit Narapong รหัสประจำตัว >323-๙-0011, Samart Khumplhee รหัสประจำตัว >204-๙-0084

Remark :
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Sawatree N

Sawatree Nonsangam
Manager
รหัสประจำตัว >204-๙-0007

Approved by

Kankorn Anek

Kankorn Anek
Assistant General Manager
รหัสประจำตัว >204-๙-0004

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Lot ID: 2469805
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3036964-3

Page 1 of 1

Sample Number	2469805-1					
Sampled Date	Jul 01, 2024 2:45 PM					
Sample Description	Wastewater					
Contract ID	L_HESIE2_003_2561	Plot	G.3, G4, G.5	Site	Toagoel (Thailand) Co.,Ltd	
Date Analysis Commenced	Jul 02, 2024					
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Physical Property	Yellow, a lot of odour, some solid and turbid					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method
Metals Testing						
Iron	mg/L	0.003	0.005	2.28	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F
Water Testing						
Fluoride as F *	mg/L	0.06	0.2	0.4	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong , Samart Khumplhee

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Lot ID: 2469806
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3030554-1

Page 2 of 2

Sample Number	2469806-1					
Sampled Date	Jul 01, 2024 3:27 PM					
Sample Description	Wastewater					
Contract ID	L_WHA ESIE2_004_2565	Plot	H.12A, H.12B	Site	TOMIKU POLYMER (THAILAND) COMPANY LIMITED.	
Date Analysis Commenced	Jul 01, 2024					
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Physical Property	Yellow, a lot of odour, solid and some turbid					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	25.2	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G
COD	mg/L	1.5	25	130	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 F
Color (at Original pH)	ADMI	-	5	89	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F
Color (at pH 7.0)	ADMI	-	5	88	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F
Cyanide as HCN *	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B
pH (on site) *	-	-	-	7.1	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)

Technical Management

Chontichak

Chontichak Subongkch
Scientist (3)
รหัสประจำตัว >323-๙-9449

Approved by

Dej Changchon

Dej Changchon
Senior Manager
รหัสประจำตัว >323-๙-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Lot ID: 2469806
Date Received : Jul 01, 2024
Date Reported : Jul 08, 2024
Report Number : 3030554-1

Page 2 of 2

Sample Number	2469806-1					
Sampled Date	Jul 01, 2024 3:27 PM					
Sample Description	Wastewater					
Contract ID	L_WHA ESIE2_004_2565	Plot	H.12A, H.12B	Site	TOMIKU POLYMER (THAILAND) COMPANY LIMITED.	
Date Analysis Commenced	Jul 01, 2024					
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Physical Property	Yellow, a lot of odour, solid and some turbid					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method
Water Testing						
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5510 D
Temperature *	Degree C	-	-	31.1	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	202	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	55	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong รหัสประจำตัว >323-๙-0011, Samart Khumplhee รหัสประจำตัว >204-๙-0084

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Technical Management

Chontichak

Chontichak Subongkch
Scientist (3)
รหัสประจำตัว >323-๙-9449

Approved by

Dej Changchon

Dej Changchon
Senior Manager
รหัสประจำตัว >323-๙-9442

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2469806

Date Received : Jul 01, 2024

Date Reported : Jul 08, 2024

Report Number : 3030554-2

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Sample Number 2469806-1
Sampled Date Jul 01, 2024 3:27 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2565
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.01	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.08	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.006	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.17	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management *Savitree N*
Savitree Naisangam
Manager
เบอร์โทรศัพท์ 2-204-0-0007

Approved by *Kanokorn Anek*
Kanokorn Anek
Assistant General Manager
เบอร์โทรศัพท์ 2-204-0-0004

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5-Report_AL_GL-en (4-12PM)



Analysis / Test Report

TESTING

No.0009

Lot ID: 2469806

Date Received : Jul 01, 2024

Date Reported : Jul 08, 2024

Report Number : 3030554-3

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Sample Number 2469806-1
Sampled Date Jul 01, 2024 3:27 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2565
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	1.80	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong , Samart Khumplee

Remark :
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by *Savitree N*
Savitree Naisangam
Manager

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5-Report_AL_GL-en (4-12PM)



Analysis / Test Report

TESTING

No.0009

Lot ID: 2469806

Date Received : Jul 01, 2024

Date Reported : Jul 08, 2024

Report Number : 3030554-2

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Sample Number 2469806-1
Sampled Date Jul 01, 2024 3:27 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2565
Date Analysis Commenced Jul 02, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.29	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong เบอร์โทรศัพท์ 2-323-0-0011 , Samart Khumplee เบอร์โทรศัพท์ 2-204-0-0084

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Technical Management *Savitree N*
Savitree Naisangam
Manager
เบอร์โทรศัพท์ 2-204-0-0007

Approved by *Kanokorn Anek*
Kanokorn Anek
Assistant General Manager
เบอร์โทรศัพท์ 2-204-0-0004

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2469833

Date Received : Jul 04, 2024

Date Reported : Jul 10, 2024

Report Number : 3030687-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

Sample Number 2469833-1
Sampled Date Jul 04, 2024 11:16 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2565
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	39.4	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	158	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	412	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	49	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyoksu เบอร์โทรศัพท์ 2-323-0-0005

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Technical Management *Chonticha*
Chonticha Subongkroh
Scientist (3)
เบอร์โทรศัพท์ 2-323-0-9449

Approved by *D. Chongchon*
Dej Chongchon
Senior Manager
เบอร์โทรศัพท์ 2-323-0-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469833
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030687-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkoch
Scientist (3)
เบอร์โทร 3-323-9449

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
เบอร์โทร 3-323-9442

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Analysis / Test Report

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475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469837
Date Received : Jul 11, 2024
Date Reported : Jul 16, 2024
Report Number : 3037038-1

Page 1 of 2

Sample Number 2469837-1
Sampled Date Jul 11, 2024 2:20 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2565 Plot H.14 Site TYN0 HOME (THAILAND) CO.,LTD
Date Analysis Commenced Jul 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	41.4	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	124	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	9	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	276	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	23	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksuai เบอร์โทร 3-323-9-0005

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Technical Management

Chontichak
Chonticha Subongkoch
Scientist (3)
เบอร์โทร 3-323-9449

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
เบอร์โทร 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469837
Date Received : Jul 11, 2024
Date Reported : Jul 16, 2024
Report Number : 3037038-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkoch
Scientist (3)
เบอร์โทร 3-323-9449

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
เบอร์โทร 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469814
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030638-1

Page 1 of 2

Sample Number 2469814-1
Sampled Date Jul 04, 2024 11:00 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2562 Plot H.34 Site Wanda New Material (Thailand) Co.,Ltd.
Date Analysis Commenced Jul 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	24.4	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	109	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	396	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	56	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksuai เบอร์โทร 3-323-9-0005

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkoch
Scientist (3)
เบอร์โทร 3-323-9449

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
เบอร์โทร 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469814
Date Received : Jul 04, 2024
Date Reported : Jul 10, 2024
Report Number : 3030638-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469820
Date Received : Jul 11, 2024
Date Reported : Jul 16, 2024
Report Number : 3030645-1

Page 1 of 2

Sample Number 2469820-1
Sampled Date Jul 11, 2024 3:20 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2562 Plot H.23, H.23A Site Xingda Steel Cord (Thailand) Ltd.
Date Analysis Commenced Jul 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	8.4	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	64	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	8.0	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	4712	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksu เบอร์โทรศัพท์ 3-323-9-0005

Remark :
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Technical Management

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Chonticha Subongkoch
Scientist (3)
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Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469820
Date Received : Jul 11, 2024
Date Reported : Jul 16, 2024
Report Number : 3030645-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
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Approved by

Dej Changchon

Dej Changchon
Senior Manager
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469851
Date Received : Jul 12, 2024
Date Reported : Jul 17, 2024
Report Number : 3037063-1

Page 1 of 2

Sample Number 2469851-1
Sampled Date Jul 12, 2024 9:45 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2567 Plot G.34A,G.35A,G.35 B Site YASUN ABRASIVES (THAILAND) CO., LTD.
Date Analysis Commenced Jul 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	26	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	132	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	19	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksu เบอร์โทรศัพท์ 3-323-9-0005

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Chontichak

Chonticha Subongkoch
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Approved by

Dej Changchon

Dej Changchon
Senior Manager
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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469851
Date Received : Jul 12, 2024
Date Reported : Jul 17, 2024
Report Number : 3037063-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkroh
Scientist (3)
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Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469852
Date Received : Jul 12, 2024
Date Reported : Jul 17, 2024
Report Number : 3037065-1

Page 1 of 2

Sample Number	2469852-1						
Sampled Date	Jul 12, 2024 10:10 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_005_2567	Plot	G.36A,G.36B,G.36 C,G.36D,G.37A,G.37B	Site	YASUN ABRASIVES (THAILAND) CO., LTD.		
Location	ลาหุสรา						
Date Analysis Commenced	Jul 12, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	25.4	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	63	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	8.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	150	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyoksu โทรศัพท์ 3-323-9-0005

Remark :

Technical Management

Chontichak

Chonticha Subongkroh
Scientist (3)
โทรศัพท์ 3-323-9449

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469852
Date Received : Jul 12, 2024
Date Reported : Jul 17, 2024
Report Number : 3037065-1

Page 2 of 2

- LOD : Limit of Detection
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkroh
Scientist (3)
โทรศัพท์ 3-323-9449

Approved by

Dej Changchon

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469869
Date Received : Jul 11, 2024
Date Reported : Jul 16, 2024
Report Number : 3037039-1

Page 1 of 2

Sample Number	2469869-1						
Sampled Date	Jul 11, 2024 2:05 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_006_2565	Plot	H.22	Site	Yinlei Electric (Thailand) Co.,Ltd		
Date Analysis Commenced	Jul 11, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	7.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	36	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	512	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyoksu โทรศัพท์ 3-323-9-0005 , Thanassou Namakunna โทรศัพท์ 3-204-9-0101

Remark :

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Technical Management

Chontichak

Chonticha Subongkroh
Scientist (3)
โทรศัพท์ 3-323-9449

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2469869
Date Received : Jul 11, 2024
Date Reported : Jul 16, 2024
Report Number : 3037039-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkroh
Scientist (3)
โทรศัพท์ 3-323-9-9449

Approved by

D. Chongchon

Dej Chongchon
Senior Manager
โทรศัพท์ 3-323-9-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0009
Lot ID: 2469869
Date Received : Jul 11, 2024
Date Reported : Jul 18, 2024
Report Number : 3037039-2

Page 1 of 1

Sample Number 2460869-1
Sampled Date Jul 11, 2024 2:05 PM
Sample Description Wastewater
Contract ID L-WHA ESIE2_006_2565 Plot H.22 Site Yinlei Electric (Thailand) Co.,Ltd
Date Analysis Commenced Jul 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOQ)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Chromium	mg/L	0.0003	0.0005	0.009	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.54	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyoksu โทรศัพท์ 3-323-9-0005 , Thanasoun Namakunna โทรศัพท์ 3-204-9-0101

Remark :

- LOD : Limit of Detection
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- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chanatt L.

Chanattagan Inchom
Section Head
โทรศัพท์ 3-204-9-0008

Approved by

Kanokkorn Anek

Kanokkorn Anek
Assistant General Manager
โทรศัพท์ 3-204-9-0004

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483916
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063484-1

Page 1 of 2

Sample Number	2483916-1						
Sample Date	Aug 08, 2024 3:00 PM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_001_2559	Plot	G.1,G.72	Site	AISIN POWERTRAIN (THAILAND) CO.,LTD.		
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.1	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	932	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokai เสร็จสิ้นการสุ่ม 3-323-9-0005

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Technical Management

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Photchanas Seeda
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หมายเลขโทรศัพท์ 3-323-9-9446

Approved by

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ 3-323-9-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483916
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063484-1

Page 2 of 2

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Technical Management

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Approved by

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Senior Manager
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483947
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063596-1

Page 1 of 2

Sample Number	2483947-1						
Sample Date	Aug 08, 2024 9:55 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2566	Plot	G.23	Site	ALILA HOME (THAILAND) CO.,LTD.		
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	59.6	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	227	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	8.1	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	532	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	60	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokai เสร็จสิ้นการสุ่ม 3-323-9-0005

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Technical Management

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Approved by

Dej Changchon
Senior Manager
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483947
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063596-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Approved by

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Analysis / Test Report

TESTING

No.0042

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Lot ID: 2483905
Date Received : Aug 02, 2024
Date Reported : Aug 09, 2024
Report Number : 3063480-1

Page 2 of 2

Sample Number	2483905-1						
Sampled Date	Aug 02, 2024 3:35 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2562	Plot	H.4	Site	Alliance Laundry (Thailand) Company Limited.		
Date Analysis Commenced	Aug 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	36.4	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	140	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	60	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	59	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Water analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

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Chonticha Subongkroh
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Approved by

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Senior Manager
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Analysis / Test Report

TESTING

No.0042

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Lot ID: 2483905
Date Received : Aug 02, 2024
Date Reported : Aug 09, 2024
Report Number : 3063480-1

Page 2 of 2

Sample Number	2483905-1						
Sampled Date	Aug 02, 2024 3:35 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2562	Plot	H.4	Site	Alliance Laundry (Thailand) Company Limited.		
Date Analysis Commenced	Aug 02, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.04	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5510 D	Rayong
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	332	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Nattawat Athomprommarat โทรศัพท์ +323-94006

Remark :
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Technical Management

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Analysis / Test Report

TESTING

No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Lot ID: 2483905
Date Received : Aug 02, 2024
Date Reported : Aug 09, 2024
Report Number : 3063480-2

Page 2 of 2

Sample Number	2483905-1						
Sampled Date	Aug 02, 2024 3:35 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2562	Plot	H.4	Site	Alliance Laundry (Thailand) Company Limited.		
Date Analysis Commenced	Aug 05, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0010	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.05	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.007	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

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Manager
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Analysis / Test Report

TESTING

No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Lot ID: 2483905
Date Received : Aug 02, 2024
Date Reported : Aug 09, 2024
Report Number : 3063480-2

Page 2 of 2

Sample Number	2483905-1						
Sampled Date	Aug 02, 2024 3:35 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2562	Plot	H.4	Site	Alliance Laundry (Thailand) Company Limited.		
Date Analysis Commenced	Aug 05, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athomprommarat โทรศัพท์ +323-94006

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Technical Management

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Approved by

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

Lot ID: 2483905
Date Received : Aug 02, 2024
Date Reported : Aug 09, 2024
Report Number : 3063480-3

Page 1 of 1

Sample Number 2483905-1
Sampled Date Aug 02, 2024 3:35 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_003_2562 Plot H.4 Site Alliance Laundry (Thailand) Company Limited.
Date Analysis Commenced Aug 05, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.32	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Nattawut Ahompramarat

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Approved by

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Savitree Noinangiam
Manager

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 2483932
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063515-1

Page 1 of 2

Sample Number 2483932-1
Sampled Date Aug 08, 2024 2:45 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2564 Plot G.55 Site APEX International (Thailand) Co., Ltd.
Date Analysis Commenced Aug 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	18.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	65	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2240	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksuai วัฒนาแสนไศล 3-323-4-0005

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeds
Scientist (4)
วัฒนาแสนไศล 3-323-4-9446

Approved by

Dej Changchon
Senior Manager
วัฒนาแสนไศล 3-323-4-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 2483932
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063515-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Photchanas Seeds
Scientist (4)
วัฒนาแสนไศล 3-323-4-9446

Approved by

Dej Changchon
Senior Manager
วัฒนาแสนไศล 3-323-4-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 2483933
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063517-1

Page 1 of 2

Sample Number 2483933-1
Sampled Date Aug 08, 2024 10:40 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2564 Plot G.47/G.49 Site BROSE (THAILAND) Co., Ltd.
Date Analysis Commenced Aug 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	48.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	205	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	432	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	34	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksuai วัฒนาแสนไศล 3-323-4-0005

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeds
Scientist (4)
วัฒนาแสนไศล 3-323-4-9446

Approved by

Dej Changchon
Senior Manager
วัฒนาแสนไศล 3-323-4-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483933
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063517-1

Page 2 of 2

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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ ๖323-๙446

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483926
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063500-1

Page 1 of 2

Sample Number 2483926-1
Sampled Date Aug 08, 2024 3:15 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2562 Plot G-2 Site Canyon Asia (Thailand) Co.,Ltd
Date Analysis Commenced Aug 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, a lot of solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	18.8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	72	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	256	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	20	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksuai โทรศัพท์ ๖323-๙0005

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ ๖323-๙446

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483926
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063500-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ ๖323-๙446

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483946
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063595-1

Page 1 of 2

Sample Number 2483946-1
Sampled Date Aug 09, 2024 9:15 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2566 Plot H.29 Site CHANG YUE INDUSTRIAL (THAILAND) CO.,LTD.
Date Analysis Commenced Aug 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	33.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	75	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	456	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	26	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksuai โทรศัพท์ ๖323-๙0005

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ ๖323-๙446

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483946
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063595-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
โทรศัพท์ ๖323-๙446

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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Analysis / Test Report

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475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483949
Date Received : Aug 02, 2024
Date Reported : Aug 09, 2024
Report Number : 3063608-1

Page 1 of 2

Sample Number 2483949-1
Sampled Date Aug 02, 2024 3:15 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2566 Plot H.38 Site CHOENJIAN FABRIC (THAILAND) CO.,LTD.
Date Analysis Commenced Aug 02, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	13.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	49	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	304	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Nattawat Athomprommarat โทรศัพท์ ๖323-๙0006

Remark :
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Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
โทรศัพท์ ๖323-๙446

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483949
Date Received : Aug 02, 2024
Date Reported : Aug 09, 2024
Report Number : 3063608-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
โทรศัพท์ ๖323-๙446

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483945
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063594-1

Page 1 of 2

Sample Number 2483945-1
Sampled Date Aug 09, 2024 9:50 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2566 Plot H.5 Site Enrich Industrial (Thai) Co.,Ltd.
Date Analysis Commenced Aug 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	25.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	51	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	6.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	408	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksuai โทรศัพท์ ๖323-๙0005

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
โทรศัพท์ ๖323-๙446

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483945
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063594-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ ๖323-๙446

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483917
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063485-1

Page 1 of 2

Sample Number 2483917-1
Sampled Date Aug 09, 2024 11:20 AM
Sample Description Wastewater
Contract ID L_HESIE2_001_2560 Plot H.1 Site Fabrinet Co.,Ltd.
Date Analysis Commenced Aug 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	66.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	96	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	252	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	26	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyoksaui โทรศัพท์ ๖323-๙0005

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ ๖323-๙446

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483917
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063485-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ ๖323-๙446

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483919
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063488-1

Page 1 of 2

Sample Number 2483919-1
Sampled Date Aug 08, 2024 2:10 PM
Sample Description Wastewater
Contract ID L_HESIE2_001_2561 Plot G.48, G.50, G.52, G.54 Site FIRST MATERIAL SCIENCE (THAILAND) LTD.
Date Analysis Commenced Aug 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	56.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	199	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	296	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	35	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyoksaui โทรศัพท์ ๖323-๙0005

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ ๖323-๙446

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483919
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063488-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขโทรศัพท์ 3-323-9446

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ 3-323-9442

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483948
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063597-1

Page 1 of 2

Sample Number 2483948-1
Sampled Date Aug 09, 2024 9:05 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2566 Plot H.31 Site FLOOR MASTERS (THAILAND) CO.,LTD.
Date Analysis Commenced Aug 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	49.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	167	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	460	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	21	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksu หมายเลขโทรศัพท์ 3-323-9-0005

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขโทรศัพท์ 3-323-9446

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ 3-323-9442

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Analysis / Test Report

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475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483948
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063597-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขโทรศัพท์ 3-323-9446

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483904
Date Received : Aug 02, 2024
Date Reported : Aug 09, 2024
Report Number : 3063479-1

Page 1 of 2

Sample Number 2483904-1
Sampled Date Aug 02, 2024 3:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2562 Plot H.26 H.33 Site Grand Tech International (Thailand) Co.,Ltd.
Date Analysis Commenced Aug 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	11.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	63	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	48	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	45	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Chonticha S.

Chonticha Subongkroh
Scientist (3)
หมายเลขโทรศัพท์ 3-323-9449

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ 3-323-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483904

Date Received : Aug 02, 2024

Date Reported : Aug 09, 2024

Report Number : 3063479-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory I Random Check

Project Location : WHA ESIE 2

Sample Number 2483904-1
Sampled Date Aug 02, 2024 3:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2562
Date Analysis Commenced Aug 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	30.3	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	364	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athomprommarat รหัสประจำตัว >323-0-0006, Kardbundi Kitsupavanit รหัสประจำตัว >204-0-0001

Remark :

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- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
รหัสประจำตัว >323-0-9449

Approved by

Dej Changchon

Senior Manager
รหัสประจำตัว >323-0-9442

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2483904

Date Received : Aug 02, 2024

Date Reported : Aug 09, 2024

Report Number : 3063479-2

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory I Random Check

Project Location : WHA ESIE 2

Sample Number 2483904-1
Sampled Date Aug 02, 2024 3:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2562
Date Analysis Commenced Aug 05, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.003	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.10	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.01	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0010	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.24	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N

Savitree Naisangam
Manager
รหัสประจำตัว >204-0-0007

Approved by

Kanokorn Anek

Assistant General Manager
รหัสประจำตัว >204-0-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2483904

Date Received : Aug 02, 2024

Date Reported : Aug 09, 2024

Report Number : 3063479-2

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory I Random Check

Project Location : WHA ESIE 2

Sample Number 2483904-1
Sampled Date Aug 02, 2024 3:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2562
Date Analysis Commenced Aug 05, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.006	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athomprommarat รหัสประจำตัว >323-0-0006, Kardbundi Kitsupavanit รหัสประจำตัว >204-0-0001

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Savitree N

Savitree Naisangam
Manager
รหัสประจำตัว >204-0-0007

Approved by

Kanokorn Anek

Assistant General Manager
รหัสประจำตัว >204-0-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2483904

Date Received : Aug 02, 2024

Date Reported : Aug 09, 2024

Report Number : 3063479-3

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory I Random Check

Project Location : WHA ESIE 2

Sample Number 2483904-1
Sampled Date Aug 02, 2024 3:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2562
Date Analysis Commenced Aug 05, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.49	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.6	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athomprommarat รหัสประจำตัว >323-0-0006, Kardbundi Kitsupavanit รหัสประจำตัว >204-0-0001

Remark :

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Technical Management

Savitree N

Savitree Naisangam
Manager
รหัสประจำตัว >204-0-0007

Approved by

Kanokorn Anek

Assistant General Manager
รหัสประจำตัว >204-0-0004

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483927

Date Received : Aug 08, 2024

Date Reported : Aug 15, 2024

Report Number : 3063503-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 2483927-1
Sample Date Aug 08, 2024 10:55 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2563
Date Analysis Commenced Aug 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	54.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	192	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	316	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	66	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokouai เสร็จสิ้นการสุ่มตัวอย่าง 3-323-0-0005

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
หมายเลขโทรศัพท์ 3-323-9-9446

Approved by

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ 3-323-9-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483927

Date Received : Aug 08, 2024

Date Reported : Aug 15, 2024

Report Number : 3063503-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
หมายเลขโทรศัพท์ 3-323-9-9446

Approved by

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ 3-323-9-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483950

Date Received : Aug 08, 2024

Date Reported : Aug 15, 2024

Report Number : 3063609-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 2483950-1
Sample Date Aug 08, 2024 1:40 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2566
Date Analysis Commenced Aug 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	14.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	36	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	324	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokouai เสร็จสิ้นการสุ่มตัวอย่าง 3-323-0-0005

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
หมายเลขโทรศัพท์ 3-323-9-9446

Approved by

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ 3-323-9-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483950

Date Received : Aug 08, 2024

Date Reported : Aug 15, 2024

Report Number : 3063609-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
หมายเลขโทรศัพท์ 3-323-9-9446

Approved by

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ 3-323-9-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483953

Date Received : Aug 08, 2024

Date Reported : Aug 15, 2024

Report Number : 3063616-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 2483953-1
Sample Date Aug 08, 2024 3:30 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2567
Date Analysis Commenced Aug 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	197	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	467	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	19	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	376	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	74	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokouai เสร็จสิ้นการสุ่มตัวอย่าง 3-323-0-0005

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
หมายเลขโทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ 3-323-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483953

Date Received : Aug 08, 2024

Date Reported : Aug 15, 2024

Report Number : 3063616-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
หมายเลขโทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ 3-323-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483958

Date Received : Aug 08, 2024

Date Reported : Aug 15, 2024

Report Number : 3063635-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 2483958-1
Sample Date Aug 08, 2024 9:25 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2567
Date Analysis Commenced Aug 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	22.7	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	69	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	8.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	176	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	25	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokouai เสร็จสิ้นการสุ่มตัวอย่าง 3-323-0-0005

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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
หมายเลขโทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ 3-323-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483958

Date Received : Aug 08, 2024

Date Reported : Aug 15, 2024

Report Number : 3063635-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
หมายเลขโทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ 3-323-9442

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483954
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063618-1

Page 1 of 2

Sample Number	2483954-1						
Sample Date	Aug 08, 2024 9:55 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_002_2567	Plot	G.22	Site	LEADING WHEEL CO.,LTD.		
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	36.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	139	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	796	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyokouai เสร็จสิ้นการส่ง รวบรวมข้อมูล

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483954
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063618-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483929
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063507-1

Page 1 of 2

Sample Number	2483929-1						
Sample Date	Aug 08, 2024 2:20 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_001_2564	Plot	G.51	Site	Linak Apac Co.,Ltd.		
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	108	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyokouai เสร็จสิ้นการส่ง รวบรวมข้อมูล

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483929
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063507-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483935

Date Received : Aug 08, 2024

Date Reported : Aug 15, 2024

Report Number : 3063521-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Sample Number 2483935-1

Sample Date Aug 08, 2024 9:40 AM

Sample Description Wastewater

Contract ID L_WHA

Date Analysis Commenced ESIE2_007_2564

Condition of Sample Aug 08, 2024

Physical Property Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)

Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	18.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	73	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	208	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokouai veridunarsath 3-323-n-0005

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
veridunarsath 3-323-n-9446

Approved by

Dej Changchon
Senior Manager
veridunarsath 3-323-n-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483935

Date Received : Aug 08, 2024

Date Reported : Aug 15, 2024

Report Number : 3063521-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Sample Number 2483935-1

Sample Date Aug 08, 2024 9:40 AM

Sample Description Wastewater

Contract ID L_WHA

Date Analysis Commenced ESIE2_007_2564

Condition of Sample Aug 08, 2024

Physical Property Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)

Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	18.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	73	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	208	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokouai veridunarsath 3-323-n-0005

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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
veridunarsath 3-323-n-9446

Approved by

Dej Changchon
Senior Manager
veridunarsath 3-323-n-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483928

Date Received : Aug 08, 2024

Date Reported : Aug 15, 2024

Report Number : 3063504-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Sample Number 2483928-1

Sample Date Aug 08, 2024 10:05 AM

Sample Description Wastewater

Contract ID L_WHA

Date Analysis Commenced ESIE2_002_2563

Condition of Sample Aug 08, 2024

Physical Property Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)

Yellow, some odour, a lot of solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	38.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	153	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	376	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	23	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokouai veridunarsath 3-323-n-0005

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
veridunarsath 3-323-n-9446

Approved by

Dej Changchon
Senior Manager
veridunarsath 3-323-n-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483928

Date Received : Aug 08, 2024

Date Reported : Aug 15, 2024

Report Number : 3063504-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Sample Number 2483928-1

Sample Date Aug 08, 2024 10:05 AM

Sample Description Wastewater

Contract ID L_WHA

Date Analysis Commenced ESIE2_002_2563

Condition of Sample Aug 08, 2024

Physical Property Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)

Yellow, some odour, a lot of solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	38.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	153	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	376	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	23	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokouai veridunarsath 3-323-n-0005

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Technical Management

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Photchanas Seeda
Scientist (4)
veridunarsath 3-323-n-9446

Approved by

Dej Changchon
Senior Manager
veridunarsath 3-323-n-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483939

Date Received : Aug 09, 2024

Date Reported : Aug 15, 2024

Report Number : 3063582-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Page 1 of 2

Sample Number 2483939-1
Sample Date Aug 09, 2024 10:05 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2565
Date Analysis Commenced Aug 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	66.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	238	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	448	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	45	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokai เสร็จสิ้นการสุ่มตัวอย่าง 3-323-0-0005

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Technical Management

Photchanas.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-9446

Approved by

Dej Changchon

Senior Manager
หมายเลขประจำตัว 3-323-0-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483939

Date Received : Aug 09, 2024

Date Reported : Aug 15, 2024

Report Number : 3063582-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-9446

Approved by

Dej Changchon

Senior Manager
หมายเลขประจำตัว 3-323-0-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483934

Date Received : Aug 09, 2024

Date Reported : Aug 15, 2024

Report Number : 3063519-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Page 1 of 2

Sample Number 2483934-1
Sample Date Aug 09, 2024 8:55 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2564
Date Analysis Commenced Aug 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	18.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	64	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	384	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	22	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokai เสร็จสิ้นการสุ่มตัวอย่าง 3-323-0-0005

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

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Photchanas Seeda
Scientist (4)
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Approved by

Dej Changchon

Senior Manager
หมายเลขประจำตัว 3-323-0-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483934

Date Received : Aug 09, 2024

Date Reported : Aug 15, 2024

Report Number : 3063519-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Page 2 of 2

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Technical Management

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Approved by

Dej Changchon

Senior Manager
หมายเลขประจำตัว 3-323-0-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483918
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063487-1

Page 1 of 2

Sample Number	2483918-1						
Sample Date	Aug 09, 2024 10:35 AM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_002_2560	Plot	H.8	Site	SAIC MOTOR-CP CO.,LTD.		
Date Analysis Commenced	Aug 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	8.8	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	38	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	464	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokai เสร็จสิ้นการสุ่ม 3-323-0-0005

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483918
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063487-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483955
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063620-1

Page 1 of 2

Sample Number	2483955-1						
Sample Date	Aug 09, 2024 9:25 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2567	Plot	H.16	Site	SAKURA PRINTING TECHNOLOGY COMPANY LIMITED		
Date Analysis Commenced	Aug 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	126	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	304	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.2	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	532	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	54	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokai เสร็จสิ้นการสุ่ม 3-323-0-0005

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483955
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063620-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483930

Date Received : Aug 02, 2024

Date Reported : Aug 09, 2024

Report Number : 3063510-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :

Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Page 1 of 2

Sample Number	2483930-1						
Sample Date	Aug 02, 2024 3:10 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_002_2564	Plot	H.36	Site	San Ho Precision Industrial Co.,Ltd.		
Date Analysis Commenced	Aug 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	138	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athornprommarat รหัสประจำตัว >323-9-0006

Remark :
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Technical Management

Photchanas.
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รหัสประจำตัว >323-9-9446

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-9-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483930

Date Received : Aug 02, 2024

Date Reported : Aug 09, 2024

Report Number : 3063510-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :

Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Page 2 of 2

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Technical Management

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Scientist (4)
รหัสประจำตัว >323-9-9446

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-9-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483931

Date Received : Aug 08, 2024

Date Reported : Aug 15, 2024

Report Number : 3063513-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :

Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Page 1 of 2

Sample Number	2483931-1						
Sample Date	Aug 08, 2024 2:25 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2564	Plot	G.53	Site	Sanko Plastics (Thailand) Co.,Ltd.		
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	210	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokasai รหัสประจำตัว >323-9-0005

Remark :
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รหัสประจำตัว >323-9-9446

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-9-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483931

Date Received : Aug 08, 2024

Date Reported : Aug 15, 2024

Report Number : 3063513-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :

Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Page 2 of 2

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Technical Management

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Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-9-9446

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-9-9442

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RIGHT SOLUTIONS RIGHT PARTNERS

5327-88/2468

53299901_RL_QC.rpt (2-06PM)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483920
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063489-1

Page 1 of 2

Sample Number	2483920-1						
Sample Date	Aug 08, 2024 10:20 AM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_002_2561	Plot	G.28	Site	SGF (THAILAND) CO.,LTD.		
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	31.7	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	145	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	372	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	30	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokai เสร็จสิ้นการส่ง 3-323-0005

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

5302-88/2483

RIGHT SOLUTIONS RIGHT PARTNERSHIP

5302-88/2483



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483920
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063489-1

Page 2 of 2

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.							
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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5302-88/2483

RIGHT SOLUTIONS RIGHT PARTNERSHIP

5302-88/2483



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483924
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063496-1

Page 1 of 2

Sample Number	2483924-1						
Sample Date	Aug 09, 2024 10:15 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_006_2562	Plot	I-3,I-38	Site	SIAM YAMATO STEEL COMPANY LIMITED.		
Date Analysis Commenced	Aug 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	26.2	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	66	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.4	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	424	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokai เสร็จสิ้นการส่ง 3-323-0005

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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5302-88/2483

RIGHT SOLUTIONS RIGHT PARTNERSHIP

5302-88/2483



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483924
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063496-1

Page 2 of 2

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.							
------------------------------------------------------------------------------------------------	--	--	--	--	--	--	--

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483944

Date Received : Aug 02, 2024

Date Reported : Aug 09, 2024

Report Number : 3063593-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 2483944-1
Sample Date Aug 02, 2024 2:30 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2565
Date Analysis Commenced Aug 02, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	31.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	136	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	484	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	35	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawut Athornprommarat รหัสประจำตัว >323-0-0006

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-0-9446

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-0-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483944

Date Received : Aug 02, 2024

Date Reported : Aug 09, 2024

Report Number : 3063593-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 2483944-1
Sample Date Aug 02, 2024 2:30 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2565
Date Analysis Commenced Aug 02, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	31.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	136	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	484	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	35	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawut Athornprommarat รหัสประจำตัว >323-0-0006

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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-0-9446

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-0-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483922

Date Received : Aug 02, 2024

Date Reported : Aug 09, 2024

Report Number : 3063494-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 2483922-1
Sample Date Aug 02, 2024 2:35 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2562
Date Analysis Commenced Aug 02, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	62.4	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	196	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	268	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	49	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawut Athornprommarat รหัสประจำตัว >323-0-0006

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-0-9446

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-0-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483922

Date Received : Aug 02, 2024

Date Reported : Aug 09, 2024

Report Number : 3063494-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 2483922-1
Sample Date Aug 02, 2024 2:35 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2562
Date Analysis Commenced Aug 02, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	62.4	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	196	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	268	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	49	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawut Athornprommarat รหัสประจำตัว >323-0-0006

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Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-0-9446

Approved by

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Senior Manager
รหัสประจำตัว >323-0-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483921
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063490-1

Page 1 of 2

Sample Number	2483921-1						
Sample Date	Aug 08, 2024 9:00 AM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_003_2561	Plot	G.3, G4, G.5	Site	Toagosei (Thailand) Co.,Ltd		
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.0	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	40.0	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	154	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokai เสร็จสิ้นการสุ่ม 3-323-0-0005

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483921
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063490-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.							
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Technical Management

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Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483941
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063587-1

Page 1 of 2

Sample Number	2483941-1						
Sample Date	Aug 09, 2024 9:35 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_004_2565	Plot	H.12A, H.12B	Site	TOMIKU POLYMER (THAILAND) COMPANY LIMITED.		
Date Analysis Commenced	Aug 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	755	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	1379	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	4.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	506	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	23	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokai เสร็จสิ้นการสุ่ม 3-323-0-0005

Remark :
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Technical Management

Photchanas.
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Scientist (4)
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Approved by

Dej Changchon
Senior Manager
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483941
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063587-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.							
--------------------------------------------------------------------------------------------------	--	--	--	--	--	--	--

Technical Management

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Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483938

Date Received : Aug 09, 2024

Date Reported : Aug 15, 2024

Report Number : 3063581-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 2483938-1
Sample Date Aug 09, 2024 10:10 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2565
Date Analysis Commenced Aug 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	67.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	193	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	468	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	45	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokouai เสร็จสิ้นการส่ง รวบรวมข้อมูล

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
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Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483938

Date Received : Aug 09, 2024

Date Reported : Aug 15, 2024

Report Number : 3063581-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483943

Date Received : Aug 09, 2024

Date Reported : Aug 15, 2024

Report Number : 3063588-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 2483943-1
Sample Date Aug 09, 2024 9:30 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2565
Date Analysis Commenced Aug 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	57.9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	127	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	10	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	440	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	27	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyokouai เสร็จสิ้นการส่ง รวบรวมข้อมูล

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

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Photchanas Seeda
Scientist (4)
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Approved by

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2483943

Date Received : Aug 09, 2024

Date Reported : Aug 15, 2024

Report Number : 3063588-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
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Analysis / Test Report

TESTING

No.0042

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Lot ID: 2483903
Date Received : Aug 02, 2024
Date Reported : Aug 09, 2024
Report Number : 3063477-1

Page 1 of 2

Sample Number 2483903-1
Sampled Date Aug 02, 2024 2:45 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2562 Plot H.34 Site Wanda New Material (Thailand) Co.,Ltd.
Date Analysis Commenced Aug 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	19.8	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	117	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	63	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	59	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Water analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
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Approved by

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Senior Manager
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Analysis / Test Report

TESTING

No.0042

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Lot ID: 2483903
Date Received : Aug 02, 2024
Date Reported : Aug 09, 2024
Report Number : 3063477-1

Page 2 of 2

Sample Number 2483903-1
Sampled Date Aug 02, 2024 2:45 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2562 Plot H.34 Site Wanda New Material (Thailand) Co.,Ltd.
Date Analysis Commenced Aug 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5510 D	Rayong
Temperature *	Degree C	-	-	31.6	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	328	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	30	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athomprommarat โทรศัพท์ +323-94006, Karbundi Kitsupavant โทรศัพท์ +204-90001

Remark :

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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Approved by

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Analysis / Test Report

TESTING

No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Lot ID: 2483903
Date Received : Aug 02, 2024
Date Reported : Aug 09, 2024
Report Number : 3063477-2

Page 1 of 2

Sample Number 2483903-1
Sampled Date Aug 02, 2024 2:45 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2562 Plot H.34 Site Wanda New Material (Thailand) Co.,Ltd.
Date Analysis Commenced Aug 05, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.06	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.006	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.05	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N
Savitree Naisangam
Manager
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Approved by

Kanokorn Anek
Assistant General Manager
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Analysis / Test Report

TESTING

No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Lot ID: 2483903
Date Received : Aug 02, 2024
Date Reported : Aug 09, 2024
Report Number : 3063477-2

Page 2 of 2

Sample Number 2483903-1
Sampled Date Aug 02, 2024 2:45 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2562 Plot H.34 Site Wanda New Material (Thailand) Co.,Ltd.
Date Analysis Commenced Aug 05, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athomprommarat โทรศัพท์ +323-94006, Karbundi Kitsupavant โทรศัพท์ +204-90001

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Technical Management

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Savitree Naisangam
Manager
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Approved by

Kanokorn Anek
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

Lot ID: 2483903
Date Received : Aug 02, 2024
Date Reported : Aug 09, 2024
Report Number : 3063477-3

Page 1 of 1

Sample Number	2483903-1						
Sampled Date	Aug 02, 2024 2:45 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_001_2562	Plot	H.34	Site	Wanda New Material (Thailand) Co.,Ltd.		
Date Analysis Commenced	Aug 05, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.49	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.4	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Nattawut Ahomprommarat , Kardbundit Kitsupavant

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Savitree Noinangiam
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Analysis / Test Report

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475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 2483925
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063499-1

Page 2 of 2

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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ 3-323-9446

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-9442

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 2483925
Date Received : Aug 09, 2024
Date Reported : Aug 15, 2024
Report Number : 3063499-1

Page 1 of 2

Sample Number	2483925-1						
Sampled Date	Aug 09, 2024 10:50 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_007_2562	Plot	H.23,H.23A	Site	Xingda Steel Cord (Thailand) Ltd.		
Date Analysis Commenced	Aug 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1080	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksuai โทรศัพท์ 3-323-9-0005

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Technical Management

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Photchanas Seeda
Scientist (4)
โทรศัพท์ 3-323-9446

Approved by

Dej Changchon

Senior Manager
โทรศัพท์ 3-323-9442

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 2483956
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063631-1

Page 1 of 2

Sample Number	2483956-1						
Sampled Date	Aug 08, 2024 1:50 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_004_2567	Plot	G.34A,G.35A,G.35 B	Site	YASUN ABRASIVES (THAILAND) CO.,LTD.		
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	16.7	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	57	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	166	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	21	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Sansoen Khuyoksuai โทรศัพท์ 3-323-9-0005

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Technical Management

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Approved by

Dej Changchon

Senior Manager
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2



TESTING
No.0042
Lot ID: 2483956
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063631-1

Page 2 of 2

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Technical Management

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Photchanas Seeda
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Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2



TESTING
No.0042
Lot ID: 2483957
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063632-1

Page 1 of 2

Sample Number	2483957-1						
Sampled Date	Aug 08, 2024 2:00 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_005_2567	Plot	G.36A,G.36B,G.36 C,G.36D,G.37A,G.37B	Site	YASUN ABRASIVES (THAILAND) CO.,LTD.		
Location	อำเภอ						
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	199	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	537	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	8.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	772	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	88	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyoksu โทรศัพท์ ๖323-๙0005

Remark :

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ ๖323-๙446

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2



TESTING
No.0042
Lot ID: 2483957
Date Received : Aug 08, 2024
Date Reported : Aug 15, 2024
Report Number : 3063632-1

Page 2 of 2

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Technical Management

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Photchanas Seeda
Scientist (4)
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Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2



TESTING
No.0042
Lot ID: 2483909
Date Received : Aug 08, 2024
Date Reported : Aug 16, 2024
Report Number : 3084500-1

Page 1 of 2

Sample Number	2483909-1						
Sampled Date	Aug 08, 2024 1:30 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_006_2565	Plot	H.22	Site	Yinlei Electric (Thailand) Co.,Ltd		
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	38.8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	102	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	280	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	27	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyoksu โทรศัพท์ ๖323-๙0005 , Thanassou Namakunna โทรศัพท์ ๖204-๙0101

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Technical Management

Chonticha S.

Chonticha Subongkoch
Scientist (3)
โทรศัพท์ ๖323-๙449

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙442

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2483909
Date Received : Aug 08, 2024
Date Reported : Aug 16, 2024
Report Number : 3084500-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
โทรศัพท์ 3-323-9-9449

Approved by

D. Chongchon
Dej Chongchon
Senior Manager
โทรศัพท์ 3-323-9-9442

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Analysis / Test Report

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P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0009
Lot ID: 2483909
Date Received : Aug 08, 2024
Date Reported : Aug 16, 2024
Report Number : 3084500-2

Page 1 of 1

Sample Number 2483909-1
Sampled Date Aug 08, 2024 1:30 PM
Sample Description Wastewater
Contract ID L-WHA ESIE2_006_2565 Plot H.22 Site Yinlei Electric (Thailand) Co.,Ltd
Date Analysis Commenced Aug 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOQ)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Chromium	mg/L	0.0003	0.0005	0.005	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.66	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Sansoen Khuyoksu โทรศัพท์ 3-323-9-0005 , Thanasoun Namakunna โทรศัพท์ 3-204-9-0101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chanatt L.
Chanattagan Inchom
Section Head
โทรศัพท์ 3-204-9-0008

Approved by

Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
โทรศัพท์ 3-204-9-0004

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497219

Date Received : Sep 12, 2024

Date Reported : Sep 18, 2024

Report Number : 3090997-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :

Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Page 1 of 2

Sample Number	2497219-1						
Sample Date	Sep 12, 2024 3:10 PM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_001_2559	Plot	G.1,G.72	Site	AISIN POWERTRAIN (THAILAND) CO.,LTD.		
Date Analysis Commenced	Sep 12, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.6	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	756	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Anonwich Wongsochai

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
โทรศัพท์ 3-323-4-0028

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497219

Date Received : Sep 12, 2024

Date Reported : Sep 18, 2024

Report Number : 3090997-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :

Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
โทรศัพท์ 3-323-4-0028

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497251

Date Received : Sep 09, 2024

Date Reported : Sep 16, 2024

Report Number : 3091125-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :

Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Page 1 of 2

Sample Number	2497251-1						
Sample Date	Sep 09, 2024 10:58 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2566	Plot	G.23	Site	ALILA HOME (THAILAND) CO.,LTD.		
Date Analysis Commenced	Sep 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	33.6	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	156	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	228	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	31	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Suphanat Sakul

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chontichak.
Chonticha Subongkoch
Scientist (3)
โทรศัพท์ 3-323-4-0031

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497251

Date Received : Sep 09, 2024

Date Reported : Sep 16, 2024

Report Number : 3091125-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :

Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak.
Chonticha Subongkoch
Scientist (3)
โทรศัพท์ 3-323-4-0031

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497227

Date Received : Sep 12, 2024

Date Reported : Sep 18, 2024

Report Number : 3091034-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Page 1 of 2

Sample Number 2497227-1
Sample Date Sep 12, 2024 2:40 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_003_2562
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	15.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	46	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	244	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	19	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Anonwich Wongachai รหัสประจำตัว >323-4-0040

Remark :
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Technical Management Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-4-0028

Approved by D.Khumsa
Dej Changchon
Senior Manager
รหัสประจำตัว >323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497227

Date Received : Sep 12, 2024

Date Reported : Sep 18, 2024

Report Number : 3091034-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-4-0028

Approved by D.Khumsa
Dej Changchon
Senior Manager
รหัสประจำตัว >323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497237

Date Received : Sep 09, 2024

Date Reported : Sep 16, 2024

Report Number : 3091070-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Page 1 of 2

Sample Number 2497237-1
Sample Date Sep 09, 2024 2:12 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2564
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	14.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	44	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1560	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Suphanat Sakulk รหัสประจำตัว >323-4-0021, Pattarapol Savangjantam รหัสประจำตัว >204-4-0002

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Technical Management Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-4-0028

Approved by D.Khumsa
Dej Changchon
Senior Manager
รหัสประจำตัว >323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497237

Date Received : Sep 09, 2024

Date Reported : Sep 16, 2024

Report Number : 3091070-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory | Monthly

Project Location : WHA ESIE 2

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-4-0028

Approved by D.Khumsa
Dej Changchon
Senior Manager
รหัสประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

Lot ID: 2497237
No.0009
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091070-2

Page 1 of 1

Sample Number	2497237-1						
Sampled Date	Sep 09, 2024 2:12 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_004_2564	Plot	G.55	Site	APEX International (Thailand) Co.,Ltd.		
Date Analysis Commenced	Sep 10, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.41	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Suphanat Sakul ๓๓๓๓๓๓๓ ๓-323-๐-0021, Pattarapol Sawangjantam ๓๓๓๓๓๓๓ ๓-204-๐-0002

Remark :
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management
Sawitree Noisangam
Manager
๓๓๓๓๓๓๓ ๓-204-๐-0007

Approved by
Kankorn Anek
Assistant General Manager
๓๓๓๓๓๓๓ ๓-204-๐-0004

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

Lot ID: 2497238
No.0042
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091074-1

Page 1 of 2

Sample Number	2497238-1						
Sampled Date	Sep 09, 2024 3:42 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_005_2564	Plot	G.47/G.49	Site	BROSE (THAILAND) Co.,Ltd.		
Date Analysis Commenced	Sep 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	58.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	199	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	340	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	29	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Suphanat Sakul ๓๓๓๓๓๓๓ ๓-323-๐-0021

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management
Chontichak
Chonticha Subongkoch
Scientist (3)
๓๓๓๓๓๓๓ ๓-323-๐-0031

Approved by
Dej Changchon
Senior Manager
๓๓๓๓๓๓๓ ๓-323-๐-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

Lot ID: 2497238
No.0042
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091074-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management
Chontichak
Chonticha Subongkoch
Scientist (3)
๓๓๓๓๓๓๓ ๓-323-๐-0031

Approved by
Dej Changchon
Senior Manager
๓๓๓๓๓๓๓ ๓-323-๐-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

Lot ID: 2497239
No.0042
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091045-1

Page 1 of 2

Sample Number	2497239-1						
Sampled Date	Sep 09, 2024 2:04 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_008_2562	Plot	G-2	Site	Canyon Asia (Thailand) Co.,Ltd		
Date Analysis Commenced	Sep 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	19.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	65	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	264	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Suphanat Sakul ๓๓๓๓๓๓๓ ๓-323-๐-0021

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management
Chontichak
Chonticha Subongkoch
Scientist (3)
๓๓๓๓๓๓๓ ๓-323-๐-0031

Approved by
Dej Changchon
Senior Manager
๓๓๓๓๓๓๓ ๓-323-๐-0001

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Analysis / Test Report

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475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497229
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091045-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkoch
Scientist (3)
โทรศัพท์ ๖323-๙0031

Approved by

D. Khun
Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497250
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091123-1

Page 1 of 2

Sample Number 2497250-1
Sampled Date Sep 12, 2024 11:20 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2566 Plot H.29 Site CHANG YUE INDUSTRIAL (THAILAND) CO., LTD.
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	26.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	79	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	432	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	49	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Amornwich Wongasachai โทรศัพท์ ๖323-๙0040

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
โทรศัพท์ ๖323-๙0028

Approved by

D. Khun
Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497250
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091123-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
โทรศัพท์ ๖323-๙0028

Approved by

D. Khun
Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497253
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091131-1

Page 1 of 2

Sample Number 2497253-1
Sampled Date Sep 12, 2024 9:50 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2566 Plot H.38 Site CHOENJIAN FABRIC (THAILAND) CO., LTD.
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	11.7	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	34	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	200	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Amornwich Wongasachai โทรศัพท์ ๖323-๙0040

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
โทรศัพท์ ๖323-๙0028

Approved by

D. Khun
Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497253
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091131-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497256
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091139-1

Page 1 of 2

Sample Number 2497256-1
Sampled Date Sep 12, 2024 3:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2566 Plot G.13 Site DILHI INDUSTRY (THAILAND) CO.,LTD.
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	57.8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	628	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	8.0	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	27.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	476	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	383	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Amornwich Wongasachai หมายเลขประจำตัว >323-4-0040

Remark :
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Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497256
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091139-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497217
Date Received : Sep 11, 2024
Date Reported : Sep 18, 2024
Report Number : 3091226-1

Page 1 of 2

Sample Number 2497217-1
Sampled Date Sep 11, 2024 3:40 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2567 Plot G.58A/G.58B Site EASTSEA INTERNATIONAL (THAILAND) COMPANY LIMITED
Date Analysis Commenced Sep 11, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	28	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	25	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497217

Date Received : Sep 11, 2024

Date Reported : Sep 18, 2024

Report Number : 3091226-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Page 2 of 2

Sample Number 2497217-1
Sampled Date Sep 11, 2024 3:40 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2567
Date Analysis Commenced Sep 11, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	29.5	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	220	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun รหัสประจำตัว >323-4-0051 , Thanassun Namakunna รหัสประจำตัว >204-4-0101

Remark :
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-4-0028

Approved by

Dej Changchon

Senior Manager
รหัสประจำตัว >323-4-0001

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2497217

Date Received : Sep 11, 2024

Date Reported : Sep 18, 2024

Report Number : 3091226-2

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Page 1 of 2

Sample Number 2497217-1
Sampled Date Sep 11, 2024 3:40 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2567
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.007	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.06	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.002	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N

Savitree Naisangam
Manager
รหัสประจำตัว >204-4-0007

Approved by

Kanokorn Anek

Assistant General Manager
รหัสประจำตัว >204-4-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2497217

Date Received : Sep 11, 2024

Date Reported : Sep 18, 2024

Report Number : 3091226-2

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Page 2 of 2

Sample Number 2497217-1
Sampled Date Sep 11, 2024 3:40 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2567
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun รหัสประจำตัว >323-4-0051 , Thanassun Namakunna รหัสประจำตัว >204-4-0101

Remark :
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Technical Management

Savitree N

Savitree Naisangam
Manager
รหัสประจำตัว >204-4-0007

Approved by

Kanokorn Anek

Assistant General Manager
รหัสประจำตัว >204-4-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2497217

Date Received : Sep 11, 2024

Date Reported : Sep 18, 2024

Report Number : 3091226-3

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Page 1 of 1

Sample Number 2497217-1
Sampled Date Sep 11, 2024 3:40 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2567
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.15	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.4	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun , Thanassun Namakunna

Remark :
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497249
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091119-1

Page 1 of 2

Sample Number	2497249-1						
Sample Date	Sep 12, 2024 2:15 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_001_2566	Plot	H.5	Site	Enrich Industrial (Thai) Co., Ltd.		
Date Analysis Commenced	Sep 12, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	97.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	276	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	484	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	212	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Anonwich Wongachai รหัสเอกสารที่ >323-n-0040

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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสเอกสารที่ >323-n-0028

Approved by

Dej Changchon
Senior Manager
รหัสเอกสารที่ >323-n-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497249
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091119-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสเอกสารที่ >323-n-0028

Approved by

Dej Changchon
Senior Manager
รหัสเอกสารที่ >323-n-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497220
Date Received : Sep 11, 2024
Date Reported : Sep 17, 2024
Report Number : 3090999-1

Page 1 of 2

Sample Number	2497220-1						
Sample Date	Sep 11, 2024 2:00 PM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_001_2560	Plot	H.1	Site	Fabrinet Co., Ltd.		
Date Analysis Commenced	Sep 11, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	38.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	117	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.1	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	384	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	47	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun รหัสเอกสารที่ >323-n-0051

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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสเอกสารที่ >323-n-0028

Approved by

Dej Changchon
Senior Manager
รหัสเอกสารที่ >323-n-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497220
Date Received : Sep 11, 2024
Date Reported : Sep 17, 2024
Report Number : 3090999-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสเอกสารที่ >323-n-0028

Approved by

Dej Changchon
Senior Manager
รหัสเอกสารที่ >323-n-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497222

Date Received : Sep 11, 2024

Date Reported : Sep 17, 2024

Report Number : 3091010-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 2497222-1
Sample Date Sep 11, 2024 2:55 PM
Sample Description Wastewater
Contract ID L_HESIE2_001_2561 Plot G.48, G.50, G.52, Site FIRST MATERIAL SCIENCE (THAILAND) LTD.
Date Analysis Commenced Sep 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	62.7	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	238	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	8	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	416	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	45	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun วิจัยและวิจัย >323-0001

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วิทย์และวิจัย >323-0-0028

Approved by

Dej Changchon
Senior Manager
วิทย์และวิจัย >323-0-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497222

Date Received : Sep 11, 2024

Date Reported : Sep 17, 2024

Report Number : 3091010-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วิทย์และวิจัย >323-0-0028

Approved by

Dej Changchon
Senior Manager
วิทย์และวิจัย >323-0-0001

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5327-88/2484

S:\Report\AL_GA-01 (4.01PM)



Analysis / Test Report

TESTING

No.0042

Lot ID: 2497252

Date Received : Sep 12, 2024

Date Reported : Sep 18, 2024

Report Number : 3091128-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 2497252-1
Sample Date Sep 12, 2024 11:10 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2566 Plot H.31 Site FLOOR MASTERS (THAILAND) CO.,LTD.
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	33.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	151	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	364	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Anonwich Wongachai วิจัยและวิจัย >323-0-0040

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วิทย์และวิจัย >323-0-0028

Approved by

Dej Changchon
Senior Manager
วิทย์และวิจัย >323-0-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497252

Date Received : Sep 12, 2024

Date Reported : Sep 18, 2024

Report Number : 3091128-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วิทย์และวิจัย >323-0-0028

Approved by

Dej Changchon
Senior Manager
วิทย์และวิจัย >323-0-0001

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5327-88/2484

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497226

Date Received : Sep 12, 2024

Date Reported : Sep 18, 2024

Report Number : 3091029-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 2497226-1
Sample Date Sep 12, 2024 10:20 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2562
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	6.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	48	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	328	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Anonwich Wongachai รหัสประจำตัว >323-4-0040

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-4-0028

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497226

Date Received : Sep 12, 2024

Date Reported : Sep 18, 2024

Report Number : 3091029-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-4-0028

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497230

Date Received : Sep 09, 2024

Date Reported : Sep 16, 2024

Report Number : 3091048-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 2497230-1
Sample Date Sep 09, 2024 3:52 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2563
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	53.8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	230	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	296	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	74	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Suphanat Sakul รหัสประจำตัว >323-4-0021

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chontichak
Chontichak Subongkoch
Scientist (3)
รหัสประจำตัว >323-4-0031

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497230

Date Received : Sep 09, 2024

Date Reported : Sep 16, 2024

Report Number : 3091048-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chontichak Subongkoch
Scientist (3)
รหัสประจำตัว >323-4-0031

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-4-0001

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Analysis / Test Report

TESTING

No.0042

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Lot ID: 2497215
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091203-1

Page 1 of 2

Sample Number 2497215-1
Sampled Date Sep 09, 2024 3:29 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2564
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	9.4	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	30	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	24	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	23	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Water analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
โทรศัพท์ 3-323-4-0031

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

TESTING

No.0042

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Lot ID: 2497215
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091203-1

Page 2 of 2

Sample Number 2497215-1
Sampled Date Sep 09, 2024 3:29 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2564
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5510 D	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	138	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Suphanat Sakul โทรศัพท์ 3-323-4-0021, Pattarapol Savangjattam โทรศัพท์ 3-204-4-0002

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
โทรศัพท์ 3-323-4-0031

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

TESTING

No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Lot ID: 2497215
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091203-2

Page 1 of 2

Sample Number 2497215-1
Sampled Date Sep 09, 2024 3:29 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2564
Date Analysis Commenced Sep 10, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.03	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.02	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.04	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N
Savitree Naisangam
Manager
โทรศัพท์ 3-204-4-0007

Approved by

Kanokorn Anek
Assistant General Manager
โทรศัพท์ 3-204-4-0004

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Analysis / Test Report

TESTING

No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Lot ID: 2497215
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091203-2

Page 2 of 2

Sample Number 2497215-1
Sampled Date Sep 09, 2024 3:29 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2564
Date Analysis Commenced Sep 10, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.0008	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.11	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Suphanat Sakul โทรศัพท์ 3-323-4-0021, Pattarapol Savangjattam โทรศัพท์ 3-204-4-0002

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Savitree N
Savitree Naisangam
Manager
โทรศัพท์ 3-204-4-0007

Approved by

Kanokorn Anek
Assistant General Manager
โทรศัพท์ 3-204-4-0004

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

Lot ID: 2497215
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091203-3

Page 1 of 1

Sample Number 2497215-1
Sampled Date Sep 09, 2024 3:29 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2564 Plot G.62A,G.62B Site Jofo Nonwoven (Thailand) Co.,Ltd.
Date Analysis Commenced Sep 10, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.57	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Suphanat Sakulk , Pattarapol Sawangjaitam

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Savitree N.
Savitree Nongsiam
Manager

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 2497257
Date Received : Sep 11, 2024
Date Reported : Sep 17, 2024
Report Number : 3091146-1

Page 1 of 2

Sample Number 2497257-1
Sampled Date Sep 11, 2024 2:35 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2567 Plot G.33A, G.33B, G.33C Site JOINHANDS INJECTION SYSTEM (THAILAND) COMPANY LIMITED
Date Analysis Commenced Sep 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	205	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	449	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	15	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	496	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	108	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun วิเศษแสนทรัพย์ 3-323-00051

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วิเศษแสนทรัพย์ 3-323-00028

Approved by

Dej Changchon
Senior Manager
วิเศษแสนทรัพย์ 3-323-00001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 2497257
Date Received : Sep 11, 2024
Date Reported : Sep 17, 2024
Report Number : 3091146-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วิเศษแสนทรัพย์ 3-323-00028

Approved by

Dej Changchon
Senior Manager
วิเศษแสนทรัพย์ 3-323-00001

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Analysis / Test Report

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475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 2497262
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091166-1

Page 1 of 2

Sample Number 2497262-1
Sampled Date Sep 09, 2024 10:40 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2567 Plot G.18 Site Kingdean Electric (Thailand) Co.,Ltd.
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	8.1	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	102	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Suphanat Sakulk วิเศษแสนทรัพย์ 3-323-00021

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Technical Management

Chonticha.
Chonticha Subongkroh
Scientist (3)
วิเศษแสนทรัพย์ 3-323-00031

Approved by

Dej Changchon
Senior Manager
วิเศษแสนทรัพย์ 3-323-00001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497262
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3093166-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
หมายเลข 3-323-0-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลข 3-323-0-0001

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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497258
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3093594-1

Page 1 of 2

Sample Number 2497258-1
Sampled Date Sep 09, 2024 11:05 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2567 Plot G.22 Site LEADING WHEEL CO.,LTD.
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	177	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	378	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	9	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	620	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	28	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Suphanat Sakul หมายเลข 3-323-0-0021

Remark :
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Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
หมายเลข 3-323-0-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลข 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497258
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3093594-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
หมายเลข 3-323-0-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลข 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497233
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091058-1

Page 1 of 2

Sample Number 2497233-1
Sampled Date Sep 09, 2024 2:31 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2564 Plot G.51 Site Linak Apac Co.,Ltd.
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	18.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	46	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	136	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	24	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Suphanat Sakul หมายเลข 3-323-0-0021

Remark :
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Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
หมายเลข 3-323-0-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลข 3-323-0-0001

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Analysis / Test Report

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475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497233
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091058-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkroh
Scientist (3)
เบญจมาศพร งาม-323-0-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบญจมาศพร งาม-323-0-0001

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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497240
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091081-1

Page 1 of 2

Sample Number 2497240-1
Sampled Date Sep 09, 2024 10:49 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2564 Plot G.16 Site Luobang Kitchen&Bath (Thailand) Co., Ltd.
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	12.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	46	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	164	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Suphanat Sakul เบญจมาศพร งาม-323-0-0021

Remark :
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Technical Management

Chontichak

Chonticha Subongkroh
Scientist (3)
เบญจมาศพร งาม-323-0-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบญจมาศพร งาม-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497240
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091081-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkroh
Scientist (3)
เบญจมาศพร งาม-323-0-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบญจมาศพร งาม-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497231
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091052-1

Page 1 of 2

Sample Number 2497231-1
Sampled Date Sep 09, 2024 11:18 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2563 Plot G.20 Site OCEANCASH (THAILAND) Co., Ltd.
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	26.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	146	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	308	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	29	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Suphanat Sakul เบญจมาศพร งาม-323-0-0021

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkroh
Scientist (3)
เบญจมาศพร งาม-323-0-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบญจมาศพร งาม-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497231
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091052-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkoch
Scientist (3)
โทรศัพท์ ๖323-๙0031

Approved by

D. Khun
Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497242
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091089-1

Page 1 of 2

Sample Number 2497242-1
Sampled Date Sep 12, 2024 1:45 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2565 Plot 1.2A Site Primax Electronics (Thailand) Co., Ltd.
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	78.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	345	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	412	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	132	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Amornwich Wongachai โทรศัพท์ ๖323-๙0040

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
โทรศัพท์ ๖323-๙0028

Approved by

D. Khun
Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497242
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091089-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
โทรศัพท์ ๖323-๙0028

Approved by

D. Khun
Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497239
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091078-1

Page 1 of 2

Sample Number 2497239-1
Sampled Date Sep 12, 2024 11:00 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2564 Plot H-30 Site Prussia (Asia) Co., Ltd.
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	12.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	57	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	264	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	22	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Amornwich Wongachai โทรศัพท์ ๖323-๙0040

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
โทรศัพท์ ๖323-๙0028

Approved by

D. Khun
Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙0001

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Analysis / Test Report

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P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497239
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091078-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

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475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497221
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091006-1

Page 1 of 2

Sample Number 2497221-1
Sampled Date Sep 12, 2024 10:40 AM
Sample Description Wastewater
Contract ID L_HESIE2_002_2560 Plot H.8 Site SAIC MOTOR-CP CO.,LTD.
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	500	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Anonwich Wongsachai หมายเลขประจำตัว >323-4-0040

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497221
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091006-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497235
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091062-1

Page 1 of 2

Sample Number 2497235-1
Sampled Date Sep 12, 2024 9:45 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2564 Plot H.36 Site San Ho Precision Industrial Co.,Ltd.
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	222	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Anonwich Wongsachai หมายเลขประจำตัว >323-4-0040

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497235
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091066-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลขประจำตัว 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497236
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091066-1

Page 1 of 2

Sample Number 2497236-1
Sampled Date Sep 09, 2024 2:16 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_003_2564 Plot G.53 Site Sanko Plastics (Thailand) Co.,Ltd.
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.0	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	164	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Suphanat Sakul หมายเลขประจำตัว 323-4-0021

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
หมายเลขประจำตัว 323-4-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลขประจำตัว 323-4-0001

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497236
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091066-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
หมายเลขประจำตัว 323-4-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลขประจำตัว 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497213
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091189-1

Page 1 of 2

Sample Number 2497213-1
Sampled Date Sep 12, 2024 10:14 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2562 Plot H-35 Site SEAH GLOBAL (THAILAND) CO.,LTD.
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Brown, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	149	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	667	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	315	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	309	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	8.0	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลขประจำตัว 323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497213
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091189-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Sample Number 2497213-1
Sampled Date Sep 12, 2024 10:10 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2562
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Brown, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.16	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	32.3	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	784	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	278	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Anonwich Wongsachai รหัสประจำตัว >323-4-0040 , Samart Khumplee รหัสประจำตัว >204-4-0084

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-4-0028

Approved by

Dej Changchong
Senior Manager
รหัสประจำตัว >323-4-0001

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Analysis / Test Report

TESTING

No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Sample Number 2497213-1
Sampled Date Sep 12, 2024 10:10 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2562
Date Analysis Commenced Sep 13, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Brown, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.005	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	<0.0005	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.05	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	0.004	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.21	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Chanattagorn Inmhom
Section Head
รหัสประจำตัว >204-4-0008

Approved by

Kanokkorn Anek
Assistant General Manager
รหัสประจำตัว >204-4-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2497213
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091189-2

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Sample Number 2497213-1
Sampled Date Sep 12, 2024 10:10 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2562
Date Analysis Commenced Sep 13, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Brown, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.006	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	0.002	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.53	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Anonwich Wongsachai รหัสประจำตัว >323-4-0040 , Samart Khumplee รหัสประจำตัว >204-4-0084

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chanattagorn Inmhom
Section Head
รหัสประจำตัว >204-4-0008

Approved by

Kanokkorn Anek
Assistant General Manager
รหัสประจำตัว >204-4-0004

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Analysis / Test Report

TESTING

No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Sample Number 2497213-1
Sampled Date Sep 12, 2024 10:10 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2562
Date Analysis Commenced Sep 13, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Brown, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	3.78	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Anonwich Wongsachai , Samart Khumplee

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Chanattagorn Inmhom
Section Head

Approved by

Chanattagorn Inmhom
Section Head

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Analysis / Test Report

TESTING

No.0042

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Lot ID: 2497216
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091210-1

Page 1 of 2

Sample Number	2497216-1						
Sampled Date	Sep 09, 2024 10:30 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_009_2564	Plot	G.17,G.15,G.12A	Site	SEITEK INTERNATIONAL (THAILAND) CO.,LTD.		
Date Analysis Commenced	Sep 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	12	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	11	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Waterwater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
๓๔๓๔๓๔๓๔ ๓-323-๓-0031

Approved by

Dej Changchon
Senior Manager
๓๔๓๔๓๔๓๔ ๓-323-๓-0001

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Analysis / Test Report

TESTING

No.0042

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Lot ID: 2497216
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091210-1

Page 2 of 2

Sample Number	2497216-1						
Sampled Date	Sep 09, 2024 10:30 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_009_2564	Plot	G.17,G.15,G.12A	Site	SEITEK INTERNATIONAL (THAILAND) CO.,LTD.		
Date Analysis Commenced	Sep 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5510 D	Rayong
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	92	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Suphanat Sakul ๓๔๓๔๓๔๓๔ ๓-323-๓-0021, Pattarapol Savangjattam ๓๔๓๔๓๔๓๔ ๓-204-๓-0002

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
๓๔๓๔๓๔๓๔ ๓-323-๓-0031

Approved by

Dej Changchon
Senior Manager
๓๔๓๔๓๔๓๔ ๓-323-๓-0001

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Analysis / Test Report

TESTING

No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Lot ID: 2497216
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091210-2

Page 1 of 2

Sample Number	2497216-1						
Sampled Date	Sep 09, 2024 10:30 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_009_2564	Plot	G.17,G.15,G.12A	Site	SEITEK INTERNATIONAL (THAILAND) CO.,LTD.		
Date Analysis Commenced	Sep 10, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.003	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.02	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N
Savitree Naisangam
Manager
๓๔๓๔๓๔๓๔ ๓-204-๓-0007

Approved by

Kanokorn Anek
Assistant General Manager
๓๔๓๔๓๔๓๔ ๓-204-๓-0004

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Analysis / Test Report

TESTING

No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Lot ID: 2497216
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091210-2

Page 2 of 2

Sample Number	2497216-1						
Sampled Date	Sep 09, 2024 10:30 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_009_2564	Plot	G.17,G.15,G.12A	Site	SEITEK INTERNATIONAL (THAILAND) CO.,LTD.		
Date Analysis Commenced	Sep 10, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	<0.0005	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Suphanat Sakul ๓๔๓๔๓๔๓๔ ๓-323-๓-0021, Pattarapol Savangjattam ๓๔๓๔๓๔๓๔ ๓-204-๓-0002

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Savitree N
Savitree Naisangam
Manager
๓๔๓๔๓๔๓๔ ๓-204-๓-0007

Approved by

Kanokorn Anek
Assistant General Manager
๓๔๓๔๓๔๓๔ ๓-204-๓-0004

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

Lot ID: 2497216
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091210-3

Page 1 of 1

Page 1 of 1

Sample Number	2497216-1						
Sampled Date	Sep 09, 2024 10:30 AM						
Sample Description	Wastewater						
Contract ID	L_WHA	Plot	G.17,G.15,G.12A	Site	SEITEK INTERNATIONAL (THAILAND) CO.,LTD.		
Date Analysis Commenced	ESIE2_009_2564 Sep 10, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.10	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Suphanat Sakul , Pattarapol Sawangjaitam

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Savitree N.
Savitree Nonsiang
Manager

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 2497223
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091016-1

Page 1 of 2

Page 1 of 1

Sample Number	2497223-1						
Sampled Date	Sep 09, 2024 11:30 AM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_002_2561	Plot	G.28	Site	SGF (THAILAND) CO.,LTD.		
Date Analysis Commenced	Sep 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	32.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	151	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	452	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	34	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Suphanat Sakul มอดุณนรณร 3-323-0-0021

Remark :
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- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chonticha
Chonticha Subongkoch
Scientist (3)
มอดุณนรณร 3-323-0-0031

Approved by

Dej Changchon
Senior Manager
มอดุณนรณร 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 2497223
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091016-1

Page 2 of 2

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Page 2 of 2

Technical Management

Chonticha
Chonticha Subongkoch
Scientist (3)
มอดุณนรณร 3-323-0-0031

Approved by

Dej Changchon
Senior Manager
มอดุณนรณร 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

Lot ID: 2497214
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091104-1

Page 1 of 2

Sample Number	2497214-1						
Sampled Date	Sep 12, 2024 2:00 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_006_2562	Plot	I-3,I-38	Site	SIAM YAMATO STEEL COMPANY LIMITED.		
Date Analysis Commenced	Sep 12, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	13.4	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	41	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	67	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	65	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
มอดุณนรณร 3-323-0-0028

Approved by

Dej Changchon
Senior Manager
มอดุณนรณร 3-323-0-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497214

Date Received : Sep 12, 2024

Date Reported : Sep 18, 2024

Report Number : 3091194-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory / Random Check

Project Location : WHA ESIE 2

Page 2 of 2

Sample Number 2497214-1
Sampled Date Sep 12, 2024 2:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2562
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	30.2	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	376	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Anonwich Wongsachai รหัสประจำตัว >323-4-0040 , Samart Khumplee รหัสประจำตัว >204-4-0084

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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-4-0028

Approved by

Dej Changchon

Senior Manager
รหัสประจำตัว >323-4-0001

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2497214

Date Received : Sep 12, 2024

Date Reported : Sep 18, 2024

Report Number : 3091194-2

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory / Random Check

Project Location : WHA ESIE 2

Page 1 of 2

Sample Number 2497214-1
Sampled Date Sep 12, 2024 2:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2562
Date Analysis Commenced Sep 13, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.05	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.22	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N.

Savitree Nonsangam
Manager
รหัสประจำตัว >204-4-0007

Approved by

Kanokorn Anek

Assistant General Manager
รหัสประจำตัว >204-4-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2497214

Date Received : Sep 12, 2024

Date Reported : Sep 18, 2024

Report Number : 3091194-2

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory / Random Check

Project Location : WHA ESIE 2

Page 2 of 2

Sample Number 2497214-1
Sampled Date Sep 12, 2024 2:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2562
Date Analysis Commenced Sep 13, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.006	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.30	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Anonwich Wongsachai รหัสประจำตัว >323-4-0040 , Samart Khumplee รหัสประจำตัว >204-4-0084

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Technical Management

Savitree N.

Savitree Nonsangam
Manager
รหัสประจำตัว >204-4-0007

Approved by

Kanokorn Anek

Assistant General Manager
รหัสประจำตัว >204-4-0004

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S307-809 ENGL S:\Report\AL_Grpt (11-2549)



Analysis / Test Report

TESTING

No.0009

Lot ID: 2497214

Date Received : Sep 12, 2024

Date Reported : Sep 18, 2024

Report Number : 3091194-3

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory / Random Check

Project Location : WHA ESIE 2

Page 1 of 1

Sample Number 2497214-1
Sampled Date Sep 12, 2024 2:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2562
Date Analysis Commenced Sep 13, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.42	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Anonwich Wongsachai , Samart Khumplee

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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S307-809 ENGL S:\Report\AL_Grpt (11-2549)



Analysis / Test Report

TESTING

No.0042

Lot ID: 2497247

Date Received : Sep 09, 2024

Date Reported : Sep 16, 2024

Report Number : 3091113-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory I Monthly

Project Location : WHA ESIE 2

Sample Number 2497247-1
Sampled Date Sep 09, 2024 10:01 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2565
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	16.3	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	42	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.7	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	400	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	16	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Suphanat Sakuk มอดุณยวณร 323-0001

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management Chonticha Subongkoch
Scientist (3)
มอดุณยวณร 323-0001

Approved by Dej Changchon
Senior Manager
มอดุณยวณร 323-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497247

Date Received : Sep 09, 2024

Date Reported : Sep 16, 2024

Report Number : 3091113-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory I Monthly

Project Location : WHA ESIE 2

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Sample Number 2497247-1
Sampled Date Sep 09, 2024 10:01 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2565
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	16.3	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	42	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.7	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	400	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	16	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Suphanat Sakuk มอดุณยวณร 323-0001

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management Chonticha Subongkoch
Scientist (3)
มอดุณยวณร 323-0001

Approved by Dej Changchon
Senior Manager
มอดุณยวณร 323-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497212

Date Received : Sep 09, 2024

Date Reported : Sep 16, 2024

Report Number : 3091180-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory I Random Check

Project Location : WHA ESIE 2

Sample Number 2497212-1
Sampled Date Sep 09, 2024 10:09 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2562
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	20.8	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	74	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	43	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	40	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Technical Management Chonticha Subongkoch
Scientist (3)
มอดุณยวณร 323-0001

Approved by Dej Changchon
Senior Manager
มอดุณยวณร 323-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 2497212

Date Received : Sep 09, 2024

Date Reported : Sep 16, 2024

Report Number : 3091180-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory I Random Check

Project Location : WHA ESIE 2

Sample Number 2497212-1
Sampled Date Sep 09, 2024 10:09 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2562
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5510 D	Rayong
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	214	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	23	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Suphanat Sakuk มอดุณยวณร 323-0001, Pattarapol Savangjattam มอดุณยวณร 323-0002

Remark :
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chonticha Subongkoch
Scientist (3)
มอดุณยวณร 323-0001

Approved by Dej Changchon
Senior Manager
มอดุณยวณร 323-0001

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Analysis / Test Report

TESTING
No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

Lot ID: 2497212
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091180-2

Page 1 of 2

Sample Number 2497212-1
Sample Date Sep 09, 2024 10:09 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2562
Date Analysis Commenced Sep 10, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.0010	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.05	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.005	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.18	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

Savitree N
Savitree Naisangam
Manager
๖๓๒๙๙๗ ๖-204-๙-0007

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
๖๓๒๙๙๗ ๖-204-๙-0004

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Analysis / Test Report

TESTING
No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

Lot ID: 2497212
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091180-2

Page 2 of 2

Sample Number 2497212-1
Sample Date Sep 09, 2024 10:09 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2562
Date Analysis Commenced Sep 10, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.02	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.04	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Suphanat Sakul ๖๓๒๙๙๗ ๖-323-๙-0021, Pattarapol Sawangjaitam ๖๓๒๙๙๗ ๖-204-๙-0002

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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Savitree N
Savitree Naisangam
Manager
๖๓๒๙๙๗ ๖-204-๙-0007

Approved by

Kanokorn Anek
Kanokorn Anek
Assistant General Manager
๖๓๒๙๙๗ ๖-204-๙-0004

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Analysis / Test Report

TESTING
No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

Lot ID: 2497212
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091180-3

Page 1 of 1

Sample Number 2497212-1
Sample Date Sep 09, 2024 10:09 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2562
Date Analysis Commenced Sep 10, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.29	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Suphanat Sakul, Pattarapol Sawangjaitam

Remark :
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Savitree N
Savitree Naisangam
Manager

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537-802 ENGL

S:\Reports_AL_GL-qr (S-SRP)



Analysis / Test Report

TESTING
No.0042

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 2497224
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091020-1

Page 1 of 2

Sample Number 2497224-1
Sample Date Sep 09, 2024 9:48 AM
Sample Description Wastewater
Contract ID L_HESIE2_003_2561
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	39.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	144	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Suphanat Sakul ๖๓๒๙๙๗ ๖-323-๙-0021

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chonticha
Chonticha Subongkroh
Scientist (3)
๖๓๒๙๙๗ ๖-323-๙-0031

Approved by

Dej Changchon
Senior Manager
๖๓๒๙๙๗ ๖-323-๙-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24972244
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091020-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkoch
Scientist (3)
หมายเลขประจำตัว >323-0-0031

Approved by

D. Khunwong
Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24972444
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091099-1

Page 1 of 2

Sample Number 2497244-1
Sampled Date Sep 12, 2024 11:40 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2565 Plot H.12A, H.12B Site TOMIKU POLYMER (THAILAND) COMPANY LIMITED.
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	99.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	774	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	5.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	378	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	22	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Amornwich Wongasachai หมายเลขประจำตัว >323-0-0040

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
หมายเลขประจำตัว >323-0-0028

Approved by

D. Khunwong
Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24972444
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091099-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
หมายเลขประจำตัว >323-0-0028

Approved by

D. Khunwong
Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24972444
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091085-1

Page 1 of 2

Sample Number 2497241-1
Sampled Date Sep 12, 2024 1:55 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2565 Plot I.2B Site Tymphony Acoustic Technology (Thailand) Co., Ltd.
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	61.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	227	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	436	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	61	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Amornwich Wongasachai หมายเลขประจำตัว >323-0-0040

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
หมายเลขประจำตัว >323-0-0028

Approved by

D. Khunwong
Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497241
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091085-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497246
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091101-1

Page 1 of 2

Sample Number 2497246-1
Sampled Date Sep 12, 2024 11:30 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2565 Plot H.14 Site TYNO HOME (THAILAND) CO.,LTD
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	31.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	122	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	312	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	31	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Amornwich Wongasachai หมายเลขประจำตัว >323-4-0040

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497246
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091101-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497225
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091025-1

Page 1 of 2

Sample Number 2497225-1
Sampled Date Sep 12, 2024 9:35 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2562 Plot H.34 Site Wanda New Material (Thailand) Co.,Ltd.
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	20.9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	242	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.1	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	408	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	74	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Amornwich Wongasachai หมายเลขประจำตัว >323-4-0040

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497225
Date Received : Sep 12, 2024
Date Reported : Sep 18, 2024
Report Number : 3091025-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497228
Date Received : Sep 11, 2024
Date Reported : Sep 17, 2024
Report Number : 3091039-1

Page 1 of 2

Sample Number 2497228-1
Sampled Date Sep 11, 2024 2:10 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2562 Plot H.23.H.23A Site Xingda Steel Cord (Thailand) Ltd.
Date Analysis Commenced Sep 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	924	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun หมายเลขประจำตัว 3-323-0-0051

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497228
Date Received : Sep 11, 2024
Date Reported : Sep 17, 2024
Report Number : 3091039-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497260
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091154-1

Page 1 of 2

Sample Number 2497260-1
Sampled Date Sep 09, 2024 3:10 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2567 Plot G.34A,G.35A,G.35 B Site YASUN ABRASIVES (THAILAND) CO.,LTD.
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	34.4	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	108	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	8	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	188	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	175	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Suphanat Sakul หมายเลขประจำตัว 3-323-0-0021

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chonticha S.

Chonticha Subongkroh
Scientist (3)
หมายเลขประจำตัว 3-323-0-0031

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497260
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091154-1

Page 2 of 2

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Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
หมายเลข 3-323-0-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลข 3-323-0-0001

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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497261
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091160-1

Page 2 of 2

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- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
หมายเลข 3-323-0-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลข 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497261
Date Received : Sep 09, 2024
Date Reported : Sep 16, 2024
Report Number : 3091160-1

Page 1 of 2

Sample Number 2497261-1
Sampled Date Sep 09, 2024 3:17 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2567 Plot G.36A,G.36B,G.36 C,G.36D,G.37A,G.37B Site YASUN ABRASIVES (THAILAND) CO.,LTD.

Location ๑๒๓๔๕๖๗
Date Analysis Commenced Sep 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	141	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	380	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *		-	-	8.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	536	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	80	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Suphanat Sakuk หมายเลข 3-323-0-0021

Remark :

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
หมายเลข 3-323-0-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลข 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497264
Date Received : Sep 11, 2024
Date Reported : Sep 17, 2024
Report Number : 3091107-1

Page 1 of 2

Sample Number 2497264-1
Sampled Date Sep 11, 2024 2:20 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2565 Plot H.22 Site Yinlei Electric (Thailand) Co.,Ltd
Date Analysis Commenced Sep 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	206	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	436	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	10	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH (on site) *		-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	648	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	88	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun หมายเลข 3-323-0-0051, Thanassou Namakunna หมายเลข 3-204-0-0101

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas

Photchanas Seeda
Scientist (4)
หมายเลข 3-323-0-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลข 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 2497264
Date Received : Sep 11, 2024
Date Reported : Sep 17, 2024
Report Number : 3091107-1

Page 2 of 2

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Technical Management

Photchanas.

Photchanas Seeda
Scientist (4)
หมายเลข 323-0-0028

Approved by

D. Chongchon

Dej Chongchon
Senior Manager
หมายเลข 323-0-0001

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Analysis / Test Report

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P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0009
Lot ID: 2497264
Date Received : Sep 11, 2024
Date Reported : Sep 18, 2024
Report Number : 3091107-2

Page 1 of 1

Sample Number 2497264-1
Sampled Date Sep 11, 2024 2:20 PM
Sample Description Wastewater
Contract ID L-WHA ESIE2_006_2565 Plot H.22 Site Yinlei Electric (Thailand) Co.,Ltd
Date Analysis Commenced Sep 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Chromium	mg/L	0.0003	0.0005	0.008	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	1.38	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun หมายเลข 323-0-0051 , Thanasoun Namakunna หมายเลข 323-0-0101

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Technical Management

Chanatt L.

Chanattagan Inchom
Section Head
หมายเลข 204-0-0008

Approved by

Kanokkorn Anek

Kanokkorn Anek
Assistant General Manager
หมายเลข 204-0-0004

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110256
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3119924-1

Page 1 of 2

Sample Number	24110256-1						
Sample Date	Oct 04, 2024 2:58 PM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_001_2559	Plot	G.1,G.72	Site	AISIN POWERTRAIN (THAILAND) CO.,LTD.		
Date Analysis Commenced	Oct 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.5	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	708	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thammassaro เสนอเอกสาร ร-323-4-0052

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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เสนอเอกสาร ร-323-4-0028

Approved by

Dej Changchon
Senior Manager
เสนอเอกสาร ร-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110256
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3119924-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เสนอเอกสาร ร-323-4-0028

Approved by

Dej Changchon
Senior Manager
เสนอเอกสาร ร-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110290
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120064-1

Page 1 of 2

Sample Number	24110290-1						
Sample Date	Oct 04, 2024 10:31 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2566	Plot	G.23	Site	ALILA HOME (THAILAND) CO.,LTD.		
Date Analysis Commenced	Oct 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	70.4	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	143	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.9	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	116	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	21	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thammassaro เสนอเอกสาร ร-323-4-0052

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เสนอเอกสาร ร-323-4-0028

Approved by

Dej Changchon
Senior Manager
เสนอเอกสาร ร-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110290
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120064-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เสนอเอกสาร ร-323-4-0028

Approved by

Dej Changchon
Senior Manager
เสนอเอกสาร ร-323-4-0001

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Analysis / Test Report

TESTING

Lot ID: 24110265
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3119938-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Page 1 of 2

Sample Number	24110265-1						
Sample Date	Oct 07, 2024 10:39 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2562	Plot	H.4	Site	Alliance Laundry (Thailand) Company Limited.		
Date Analysis Commenced	Oct 07, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	29.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	76	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	432	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	21	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong เสร็จงานเสร็จ >323-n-0011

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
เสร็จงานเสร็จ >323-n-0028

Approved by

Dej Changchon
Senior Manager
เสร็จงานเสร็จ >323-n-0001

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5307-001 ENGL

S:\Report\Hafat_AL_GL-nt (7-2304)



Analysis / Test Report

TESTING

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
เสร็จงานเสร็จ >323-n-0028

Approved by

Dej Changchon
Senior Manager
เสร็จงานเสร็จ >323-n-0001

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5307-001 ENGL

S:\Report\Hafat_AL_GL-nt (7-2304)



Analysis / Test Report

TESTING

Lot ID: 24110313
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120043-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Page 1 of 2

Sample Number	24110313-1						
Sample Date	Oct 04, 2024 2:41 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_004_2564	Plot	G.55	Site	APEX International (Thailand) Co.,Ltd.		
Date Analysis Commenced	Oct 04, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	40.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	155	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1068	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	99	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Narunat thammassaro เสร็จงานเสร็จ >323-n-0052, Pattarapol Sawangjattam เสร็จงานเสร็จ >204-n-0002

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
เสร็จงานเสร็จ >323-n-0028

Approved by

Dej Changchon
Senior Manager
เสร็จงานเสร็จ >323-n-0001

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Analysis / Test Report

TESTING

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
เสร็จงานเสร็จ >323-n-0028

Approved by

Dej Changchon
Senior Manager
เสร็จงานเสร็จ >323-n-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

Lot ID: 24110313
Date Received : Oct 04, 2024
Date Reported : Oct 11, 2024
Report Number : 3120043-2

Page 1 of 1

Sample Number 24110313-1
Sampled Date Oct 04, 2024 2:41 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2564
Date Analysis Commenced Oct 07, 2024
Condition of Sample Contained in one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-C B	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Zinc	mg/L	0.003	0.005	1.38	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thamasaro เสร็จสิ้นการ >323-0-0052, Pattarapol Sawangjattam เสร็จสิ้นการ >204-0-0002

Remark :
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- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management
Chanattagorn Inchom
Section Head
เสร็จสิ้นการ >204-0-0008

Approved by
Kanokorn Anek
Assistant General Manager
เสร็จสิ้นการ >204-0-0004

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

Lot ID: 24110275
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120044-1

Page 1 of 2

Sample Number 24110275-1
Sampled Date Oct 04, 2024 1:56 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2564
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	66.4	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	175	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	408	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	24	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thamasaro เสร็จสิ้นการ >323-0-0052

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management
Photchana Seeds
Scientist (4)
เสร็จสิ้นการ >323-0-0028

Approved by
Dej Changchon
Senior Manager
เสร็จสิ้นการ >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

Lot ID: 24110275
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120044-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management
Photchana Seeds
Scientist (4)
เสร็จสิ้นการ >323-0-0028

Approved by
Dej Changchon
Senior Manager
เสร็จสิ้นการ >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

Lot ID: 24110248
Date Received : Oct 04, 2024
Date Reported : Oct 12, 2024
Report Number : 311918-1

Page 1 of 2

Sample Number 24110248-1
Sampled Date Oct 04, 2024 11:35 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2562
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in two glass vials one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	12.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	46	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	39	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	38	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management
Photchana Seeds
Scientist (4)
เสร็จสิ้นการ >323-0-0028

Approved by
Dej Changchon
Senior Manager
เสร็จสิ้นการ >323-0-0001

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5307-B01 ENGL

S:\Report\Ref_AE_GA-04 (S-0399)



Analysis / Test Report

TESTING

No.0042

Lot ID: 24110248

Date Received : Oct 04, 2024

Date Reported : Oct 12, 2024

Report Number : 3119918-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory / Random Check

Project Location : WHA ESIE 2

Page 2 of 2

Sample Number	24110248-1						
Sampled Date	Oct 04, 2024 11:35 AM						
Sample Description	Wastewater						
Contract ID	L_WHA	Plot	G-2	Site	Canyon Asia (Thailand) Co.,Ltd		
Date Analysis Commenced	ESIE2_008_2562						
	Oct 04, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.03	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	31.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	216	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Narunat thamasaro รหัสประจำตัว >323-a-0052 , Pattarapoi Sawangjiam รหัสประจำตัว >204-a-0002

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-a-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
รหัสประจำตัว >323-a-0001

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24110248

Date Received : Oct 04, 2024

Date Reported : Oct 11, 2024

Report Number : 3119918-2

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory / Random Check

Project Location : WHA ESIE 2

Page 1 of 2

Sample Number	24110248-1						
Sampled Date	Oct 04, 2024 11:35 AM						
Sample Description	Wastewater						
Contract ID	L_WHA	Plot	G-2	Site	Canyon Asia (Thailand) Co.,Ltd		
Date Analysis Commenced	ESIE2_008_2562						
	Oct 07, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.06	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.004	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.02	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Technical Management

Chanattagorn Inthom

Chanattagorn Inthom
Section Head
รหัสประจำตัว >204-a-0008

Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
รหัสประจำตัว >204-a-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24110248

Date Received : Oct 04, 2024

Date Reported : Oct 11, 2024

Report Number : 3119918-2

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory / Random Check

Project Location : WHA ESIE 2

Page 2 of 2

Sample Number	24110248-1						
Sampled Date	Oct 04, 2024 11:35 AM						
Sample Description	Wastewater						
Contract ID	L_WHA	Plot	G-2	Site	Canyon Asia (Thailand) Co.,Ltd		
Date Analysis Commenced	ESIE2_008_2562						
	Oct 07, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.18	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Narunat thamasaro รหัสประจำตัว >323-a-0052 , Pattarapoi Sawangjiam รหัสประจำตัว >204-a-0002

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chanattagorn Inthom

Chanattagorn Inthom
Section Head
รหัสประจำตัว >204-a-0008

Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
รหัสประจำตัว >204-a-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24110248

Date Received : Oct 04, 2024

Date Reported : Oct 11, 2024

Report Number : 3119918-3

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory / Random Check

Project Location : WHA ESIE 2

Page 1 of 1

Sample Number	24110248-1						
Sampled Date	Oct 04, 2024 11:35 AM						
Sample Description	Wastewater						
Contract ID	L_WHA	Plot	G-2	Site	Canyon Asia (Thailand) Co.,Ltd		
Date Analysis Commenced	ESIE2_008_2562						
	Oct 05, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.11	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.4	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Narunat thamasaro , Pattarapoi Sawangjiam

Remark :

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24110289

Date Received : Oct 07, 2024

Date Reported : Oct 15, 2024

Report Number : 3120063-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 24110289-1
Sample Date Oct 07, 2024 3:05 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2566
Date Analysis Commenced Oct 07, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	43.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	108	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	452	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	49	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วช.๒๕๖๓/๓-๓๒๓-๐๐๒๘

Approved by

Dej Changchon
Senior Manager
วช.๒๕๖๓/๓-๓๒๓-๐๐๐๑

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24110289

Date Received : Oct 07, 2024

Date Reported : Oct 15, 2024

Report Number : 3120063-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วช.๒๕๖๓/๓-๓๒๓-๐๐๒๘

Approved by

Dej Changchon
Senior Manager
วช.๒๕๖๓/๓-๓๒๓-๐๐๐๑

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24110292

Date Received : Oct 01, 2024

Date Reported : Oct 07, 2024

Report Number : 3120069-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 24110292-1
Sample Date Oct 01, 2024 2:20 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2566
Date Analysis Commenced Oct 01, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	166	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วช.๒๕๖๓/๓-๓๒๓-๐๐๒๘

Approved by

Dej Changchon
Senior Manager
วช.๒๕๖๓/๓-๓๒๓-๐๐๐๑

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24110292

Date Received : Oct 01, 2024

Date Reported : Oct 07, 2024

Report Number : 3120069-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วช.๒๕๖๓/๓-๓๒๓-๐๐๒๘

Approved by

Dej Changchon
Senior Manager
วช.๒๕๖๓/๓-๓๒๓-๐๐๐๑

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110296
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120074-1

Page 1 of 2

Sample Number	24110296-1						
Sample Date	Oct 04, 2024 9:48 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_008_2566	Plot	G.13	Site	DILHI INDUSTRY (THAILAND) CO.,LTD.		
Date Analysis Commenced	Oct 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	38.7	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	123	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	432	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	22	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thammassaro วรณนัทธามสาร

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วรณนัทธามสาร 3123-4-0028

Approved by

Dej Changchon
Senior Manager
วรณนัทธามสาร 3123-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110296
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120074-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วรณนัทธามสาร 3123-4-0028

Approved by

Dej Changchon
Senior Manager
วรณนัทธามสาร 3123-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110303
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120083-1

Page 1 of 2

Sample Number	24110303-1						
Sample Date	Oct 04, 2024 11:20 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_007_2567	Plot	G.58A.G.58B	Site	EASTSEA INTERNATIONAL (THAILAND) COMPANY LIMITED		
Date Analysis Commenced	Oct 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	134	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thammassaro วรณนัทธามสาร

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วรณนัทธามสาร 3123-4-0028

Approved by

Dej Changchon
Senior Manager
วรณนัทธามสาร 3123-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110303
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120083-1

Page 2 of 2

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Technical Management

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Photchanas Seeda
Scientist (4)
วรณนัทธามสาร 3123-4-0028

Approved by

Dej Changchon
Senior Manager
วรณนัทธามสาร 3123-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110288
Date Received : Oct 10, 2024
Date Reported : Oct 16, 2024
Report Number : 3120062-1

Page 1 of 2

Sample Number	24110288-1						
Sample Date	Oct 10, 2024 10:46 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_001_2566	Plot	H.5	Site	Enrich Industrial (Thai) Co., Ltd.		
Date Analysis Commenced	Oct 10, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	24.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	60	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	416	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	16	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong เสร็จงานเสร็จ 323-0-0011

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
เสร็จงานเสร็จ 323-0-0028

Approved by

Dej Changchon
Senior Manager
เสร็จงานเสร็จ 323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110288
Date Received : Oct 10, 2024
Date Reported : Oct 16, 2024
Report Number : 3120062-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
เสร็จงานเสร็จ 323-0-0028

Approved by

Dej Changchon
Senior Manager
เสร็จงานเสร็จ 323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110258
Date Received : Oct 10, 2024
Date Reported : Oct 16, 2024
Report Number : 3119925-1

Page 1 of 2

Sample Number	24110258-1						
Sample Date	Oct 10, 2024 9:48 AM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_001_2560	Plot	H.1	Site	Fabrinet Co., Ltd.		
Date Analysis Commenced	Oct 10, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	65.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	98	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	264	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	52	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong เสร็จงานเสร็จ 323-0-0011

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
เสร็จงานเสร็จ 323-0-0028

Approved by

Dej Changchon
Senior Manager
เสร็จงานเสร็จ 323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110258
Date Received : Oct 10, 2024
Date Reported : Oct 16, 2024
Report Number : 3119925-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
เสร็จงานเสร็จ 323-0-0028

Approved by

Dej Changchon
Senior Manager
เสร็จงานเสร็จ 323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110260
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3119927-1

Page 1 of 2

Sample Number	24110260-1						
Sample Date	Oct 04, 2024 2:14 PM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_001_2561	Plot	G.48, G.50, G.52, G.54	Site	FIRST MATERIAL SCIENCE (THAILAND) LTD.		
Date Analysis Commenced	Oct 04, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	65.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	206	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	360	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	37	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thammassaro เสนอเอกสาร รว-323-ร-0052

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เสนอเอกสาร รว-323-ร-0028

Approved by

Dej Changchon
Senior Manager
เสนอเอกสาร รว-323-ร-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110260
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3119927-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เสนอเอกสาร รว-323-ร-0028

Approved by

Dej Changchon
Senior Manager
เสนอเอกสาร รว-323-ร-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110291
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3120067-1

Page 1 of 2

Sample Number	24110291-1						
Sample Date	Oct 07, 2024 2:52 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_004_2566	Plot	H.31	Site	FLOOR MASTERS (THAILAND) CO.,LTD.		
Date Analysis Commenced	Oct 07, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	30.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	96	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	404	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	20	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Surawit Narapong เสนอเอกสาร รว-323-ร-0011

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เสนอเอกสาร รว-323-ร-0028

Approved by

Dej Changchon
Senior Manager
เสนอเอกสาร รว-323-ร-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110291
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3120067-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เสนอเอกสาร รว-323-ร-0028

Approved by

Dej Changchon
Senior Manager
เสนอเอกสาร รว-323-ร-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24110264

Date Received : Oct 01, 2024

Date Reported : Oct 01, 2024

Report Number : 3119936-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 24110264-1
Sampled Date Oct 01, 2024 2:40 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2562
Date Analysis Commenced Oct 01, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	6.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	208	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	19	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun

Remark :
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Technical Management

Photchanas
Photchanas Seeda
Scientist (4)
โทรศัพท์ 3-323-4-0028

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24110264

Date Received : Oct 01, 2024

Date Reported : Oct 01, 2024

Report Number : 3119936-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 24110264-1
Sampled Date Oct 01, 2024 2:40 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2562
Date Analysis Commenced Oct 01, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	6.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	208	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	19	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas
Photchanas Seeda
Scientist (4)
โทรศัพท์ 3-323-4-0028

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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5-Report_ML_GL-nt (1.59P)



Analysis / Test Report

TESTING

No.0042

Lot ID: 24110250

Date Received : Oct 04, 2024

Date Reported : Oct 10, 2024

Report Number : 3119920-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

Sample Number 24110250-1
Sampled Date Oct 04, 2024 2:06 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2563
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in two glass vials one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	65.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	207	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	84	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	83	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management

Photchanas
Photchanas Seeda
Scientist (4)
โทรศัพท์ 3-323-4-0028

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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5-Report_Metal_ML_GL-nt (1.59P)



Analysis / Test Report

TESTING

No.0042

Lot ID: 24110250

Date Received : Oct 04, 2024

Date Reported : Oct 10, 2024

Report Number : 3119920-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

Sample Number 24110250-1
Sampled Date Oct 04, 2024 2:06 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2563
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in two glass vials one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.07	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5510 D	Rayong
Temperature *	Degree C	-	-	30.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	276	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	60	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Narunat thammassaro

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas
Photchanas Seeda
Scientist (4)
โทรศัพท์ 3-323-4-0028

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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5317-BB ENGL

5-Report_Metal_ML_GL-nt (1.59P)



Analysis / Test Report

TESTING

No.0009

Lot ID: 24110250
Date Received : Oct 04, 2024
Date Reported : Oct 11, 2024
Report Number : 3119920-2

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

Sample Number 24110250-1
Sampled Date Oct 04, 2024 2:06 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2563 Plot G.45 Site Henneway (Thailand) Co.,Ltd.
Date Analysis Commenced Oct 07, 2024
Condition of Sample Contained in two glass vials,one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.05	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.008	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Technical Management
Chanattagorn Inchom
Section Head
โทรศัพท์ 2-204-0-0008

Approved by
Kanokkorn Anek
Assistant General Manager
โทรศัพท์ 2-204-0-0004

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TESTING

No.0009

Lot ID: 24110250
Date Received : Oct 04, 2024
Date Reported : Oct 11, 2024
Report Number : 3119920-3

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

Sample Number 24110250-1
Sampled Date Oct 04, 2024 2:06 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2563 Plot G.45 Site Henneway (Thailand) Co.,Ltd.
Date Analysis Commenced Oct 05, 2024
Condition of Sample Contained in two glass vials,one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.32	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Narunat thammassaro , Pattarapol Sawangjiam

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by
Chanattagorn Inchom
Section Head

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S317-B01 ENGL

S:\Report\H0401_AL_GL-en (4.3496)



Analysis / Test Report

TESTING

No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

Sample Number 24110250-1
Sampled Date Oct 04, 2024 2:06 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2563 Plot G.45 Site Henneway (Thailand) Co.,Ltd.
Date Analysis Commenced Oct 07, 2024
Condition of Sample Contained in two glass vials,one amber glass bottle and seven plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.16	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Narunat thammassaro โทรศัพท์ 2-323-0-0052 , Pattarapol Sawangjiam โทรศัพท์ 2-204-0-0002

Remark :
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management
Chanattagorn Inchom
Section Head
โทรศัพท์ 2-204-0-0008

Approved by
Kanokkorn Anek
Assistant General Manager
โทรศัพท์ 2-204-0-0004

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S317-B01 ENGL

TESTING

No.0042

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 24110294-1
Sampled Date Oct 07, 2024 2:10 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2566 Plot G.43 Site INFORM-UMH (THAILAND) CO.,LTD.
Date Analysis Commenced Oct 07, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	360	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong โทรศัพท์ 2-323-0-0011

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Technical Management
Photchanas Seeds
Scientist (4)
โทรศัพท์ 2-323-0-0028

Approved by
Dej Changchon
Senior Manager
โทรศัพท์ 2-323-0-0001

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S317-B01 ENGL

S:\Report\H0401_AL_GL-en (7.3396)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110294
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3120072-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-4-0001

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5307-80 ENGL

5-Report/AL_GL-nt (7-2309)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110283
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120053-1

Page 1 of 2

Sample Number 24110283-1
Sampled Date Oct 04, 2024 11:04 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_003_2565 Plot G.29A, G.29B, G.29C Site Jalon (Thailand) Co., Ltd.
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	64.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	150	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	200	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	23	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thamasaro หมายเลขประจำตัว 3-323-4-0052

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-4-0001

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5-Report/AL_GL-nt (5-2099)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110283
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120053-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-4-0001

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5307-80 ENGL

5-Report/AL_GL-nt (5-2099)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110278
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120049-1

Page 1 of 2

Sample Number 24110278-1
Sampled Date Oct 04, 2024 10:19 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2564 Plot G.62A, G.62B Site Jofo Nonwoven (Thailand) Co., Ltd.
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	12.9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	46	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	200	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thamasaro หมายเลขประจำตัว 3-323-4-0052

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110278
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120049-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110297
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120075-1

Page 1 of 2

Sample Number 24110297-1
Sampled Date Oct 04, 2024 3:29 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2567 Plot G.33A, G.33B, G.33C Site JOINHANDS INJECTION SYSTEM (THAILAND) COMPANY LIMITED
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	199	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	388	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	112	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	336	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	107	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thamasara เบอร์โทรศัพท์ 3-323-4-0052

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

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Scientist (4)
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Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110297
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120075-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Approved by

Dej Changchon

Dej Changchon
Senior Manager
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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110302
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120082-1

Page 1 of 2

Sample Number 24110302-1
Sampled Date Oct 04, 2024 10:11 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2567 Plot G.18 Site Kingdean Electric (Thailand) Co.,Ltd.
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	8.0	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	120	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thamasara เบอร์โทรศัพท์ 3-323-4-0052

Remark :
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Technical Management

Photchanas S.

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Scientist (4)
เบอร์โทรศัพท์ 3-323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110302
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120062-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ ๖323-๙0028

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙0001

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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110298
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120076-1

Page 1 of 2

Sample Number 24110298-1
Sampled Date Oct 04, 2024 10:48 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2567 Plot G.22 Site LEADING WHEEL CO.,LTD.
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	132	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	316	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	6.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	780	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	57	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thamasara โทรศัพท์ ๖323-๙0052

Remark :
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Technical Management

Photchanas S.

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Scientist (4)
โทรศัพท์ ๖323-๙0028

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙0001

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110298
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120076-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Photchanas Seeda
Scientist (4)
โทรศัพท์ ๖323-๙0028

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110271
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120037-1

Page 1 of 2

Sample Number 24110271-1
Sampled Date Oct 04, 2024 2:23 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2564 Plot G.51 Site Linak Apac Co.,Ltd.
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	18.7	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	48	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	116	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thamasara โทรศัพท์ ๖323-๙0052

Remark :
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Technical Management

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โทรศัพท์ ๖323-๙0028

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ ๖323-๙0001

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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110271
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120037-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110277
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120048-1

Page 1 of 2

Sample Number 24110277-1
Sampled Date Oct 04, 2024 10:00 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2564 Plot G.16 Site Luobang Kitchen&Bath (Thailand) Co.,Ltd.
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	11.9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	36	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	152	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thamasara หมายเลขประจำตัว 3-323-4-0052

Remark :
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Technical Management

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หมายเลขประจำตัว 3-323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110277
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120048-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110270
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120034-1

Page 1 of 2

Sample Number 24110270-1
Sampled Date Oct 04, 2024 10:38 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2563 Plot G.20 Site OCEANCASH (THAILAND) Co.,Ltd.
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	58.9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	191	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	376	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	36	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thamasara หมายเลขประจำตัว 3-323-4-0052

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110270
Date Received : Oct 09, 2024
Date Reported : Oct 10, 2024
Report Number : 3120034-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110282
Date Received : Oct 10, 2024
Date Reported : Oct 16, 2024
Report Number : 3120052-1

Page 1 of 2

Sample Number 24110282-1
Sampled Date Oct 10, 2024 11:03 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2565 Plot 1.2A Site Primax Electronics (Thailand) Co.,Ltd.
Date Analysis Commenced Oct 10, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	80.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	285	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	456	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	90	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Surawit Narapong หมายเลขประจำตัว 3-323-0-0011

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110282
Date Received : Oct 10, 2024
Date Reported : Oct 16, 2024
Report Number : 3120052-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110276
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3120045-1

Page 1 of 2

Sample Number 24110276-1
Sampled Date Oct 07, 2024 2:44 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2564 Plot H-30 Site Prussia (Asia) Co.,Ltd.
Date Analysis Commenced Oct 07, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	14.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	46	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	264	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Surawit Narapong หมายเลขประจำตัว 3-323-0-0011

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110276
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3120045-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110259
Date Received : Oct 10, 2024
Date Reported : Oct 16, 2024
Report Number : 3119926-1

Page 1 of 2

Sample Number 24110259-1
Sampled Date Oct 10, 2024 10:20 AM
Sample Description Wastewater
Contract ID L_HESIE2_002_2560 Plot H.8 Site SAIC MOTOR-CP CO.,LTD.
Date Analysis Commenced Oct 10, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	416	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong เบอร์โทรศัพท์ 3-323-4-0011

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110259
Date Received : Oct 10, 2024
Date Reported : Oct 16, 2024
Report Number : 3119926-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110273
Date Received : Oct 01, 2024
Date Reported : Oct 07, 2024
Report Number : 3120039-1

Page 1 of 2

Sample Number 24110273-1
Sampled Date Oct 01, 2024 2:15 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2564 Plot H.36 Site San Ho Precision Industrial Co.,Ltd.
Date Analysis Commenced Oct 01, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	146	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun เบอร์โทรศัพท์ 3-323-4-0051

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110273
Date Received : Oct 01, 2024
Date Reported : Oct 07, 2024
Report Number : 3120039-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-4-0028

Approved by

D. Khunru

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110274
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120042-1

Page 1 of 2

Sample Number 24110274-1
Sampled Date Oct 04, 2024 2:29 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_003_2564 Plot G-53 Site Sanko Plastics (Thailand) Co.,Ltd.
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	8.7	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	41	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.0	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	232	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thamasara เบอร์โทรศัพท์ 3-323-4-0052

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-4-0028

Approved by

D. Khunru

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

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475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110274
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120042-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-4-0028

Approved by

D. Khunru

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110267
Date Received : Oct 01, 2024
Date Reported : Oct 07, 2024
Report Number : 3120028-1

Page 1 of 2

Sample Number 24110267-1
Sampled Date Oct 01, 2024 2:30 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2562 Plot H-35 Site SEAH GLOBAL (THAILAND) CO.,LTD.
Date Analysis Commenced Oct 01, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	374	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	779	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	12	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	640	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	109	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun เบอร์โทรศัพท์ 3-323-4-0051

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ 3-323-4-0028

Approved by

D. Khunru

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110267
Date Received : Oct 01, 2024
Date Reported : Oct 07, 2024
Report Number : 3120028-1

Page 2 of 2

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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-0-0001

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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110279
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120050-1

Page 1 of 2

Sample Number 24110279-1
Sampled Date Oct 04, 2024 9:55 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_009_2564 Plot G.17,G.15,G.12A Site SEITEK INTERNATIONAL (THAILAND)CO.,LTD.
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	9.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - G (B)	Rayong
COD	mg/L	1.5	25	35	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	184	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thammassaro หมายเลขประจำตัว 3-323-0-0052

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-0-0001

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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110279
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120050-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-0-0001

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Analysis / Test Report

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475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110261
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3119930-1

Page 1 of 2

Sample Number 24110261-1
Sampled Date Oct 04, 2024 10:57 AM
Sample Description Wastewater
Contract ID L_HESIE2_002_2561 Plot G.28 Site SGF (THAILAND) CO.,LTD.
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	40.8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - G (B)	Rayong
COD	mg/L	1.5	25	157	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	8	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	408	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	29	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thammassaro หมายเลขประจำตัว 3-323-0-0052

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-0-0001

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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110261
Date Received : Oct 04, 2024
Date Reported : Oct 16, 2024
Report Number : 3119930-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ 3-323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110268
Date Received : Oct 10, 2024
Date Reported : Oct 16, 2024
Report Number : 3120030-1

Page 1 of 2

Sample Number 24110268-1
Sampled Date Oct 10, 2024 11:15 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2562 Plot I-3,I-38 Site SIAM YAMATO STEEL COMPANY LIMITED.
Date Analysis Commenced Oct 10, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	26.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	60	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	332	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Surawit Narapong โทรศัพท์ 3-323-4-0011

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ 3-323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110268
Date Received : Oct 10, 2024
Date Reported : Oct 16, 2024
Report Number : 3120030-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ 3-323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110287
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120060-1

Page 1 of 2

Sample Number 24110287-1
Sampled Date Oct 04, 2024 9:44 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2565 Plot G.11 Site SIGNODE (Thailand) LTD.
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	32.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	77	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	516	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	21	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thamasaro โทรศัพท์ 3-323-4-0052

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ 3-323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110262
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3119931-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
หมายเลข 3-323-0-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลข 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110285
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3120054-1

Page 1 of 2

Sample Number 24110285-1
Sampled Date Oct 07, 2024 11:08 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2565 Plot H.12A, H.12B Site TOMIKU POLYMER (THAILAND) COMPANY LIMITED.
Date Analysis Commenced Oct 07, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	917	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	1977	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	4.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	460	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	38	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Surawit Narapong หมายเลข 3-323-0-0011

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
หมายเลข 3-323-0-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลข 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110285
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3120054-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
หมายเลข 3-323-0-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลข 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110280
Date Received : Oct 10, 2024
Date Reported : Oct 16, 2024
Report Number : 3120051-1

Page 1 of 2

Sample Number 24110280-1
Sampled Date Oct 10, 2024 11:08 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2565 Plot I.2B Site Tymphany Acoustic Technology (Thailand) Co.,Ltd.
Date Analysis Commenced Oct 10, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	59.7	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	172	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	8.1	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	380	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	44	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Surawit Narapong หมายเลข 3-323-0-0011

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
หมายเลข 3-323-0-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลข 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110286
Date Received : Oct 10, 2024
Date Reported : Oct 16, 2024
Report Number : 3120055-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
เบญจมาศพร งามสะอาด

Approved by

D. Chongchon

Dej Changchon
Senior Manager
เดจ ช้างชน

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110286
Date Received : Oct 10, 2024
Date Reported : Oct 16, 2024
Report Number : 3120055-1

Page 1 of 2

Sample Number 24110286-1
Sampled Date Oct 10, 2024 10:34 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2565 Plot H.14 Site TYNO HOME (THAILAND) CO.,LTD
Date Analysis Commenced Oct 10, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	31.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	105	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	268	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	21	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Surawit Narapong เบญจมาศพร งามสะอาด > 323-n-0011

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
เบญจมาศพร งามสะอาด

Approved by

D. Chongchon

Dej Changchon
Senior Manager
เดจ ช้างชน

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110286
Date Received : Oct 01, 2024
Date Reported : Oct 16, 2024
Report Number : 3120055-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
เบญจมาศพร งามสะอาด

Approved by

D. Chongchon

Dej Changchon
Senior Manager
เดจ ช้างชน

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110263
Date Received : Oct 01, 2024
Date Reported : Oct 07, 2024
Report Number : 3119934-1

Page 1 of 2

Sample Number 24110263-1
Sampled Date Oct 01, 2024 2:10 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2562 Plot H.34 Site Wanda New Material (Thailand) Co.,Ltd.
Date Analysis Commenced Oct 01, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	18.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	81	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	332	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	33	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun เบญจมาศพร งามสะอาด > 323-n-0051

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
เบญจมาศพร งามสะอาด

Approved by

D. Chongchon

Dej Changchon
Senior Manager
เดจ ช้างชน

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110263
Date Received : Oct 01, 2024
Date Reported : Oct 07, 2024
Report Number : 3119934-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110269
Date Received : Oct 10, 2024
Date Reported : Oct 16, 2024
Report Number : 3120032-1

Page 1 of 2

Sample Number 24110269-1
Sampled Date Oct 10, 2024 10:00 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2562 Plot H.23.H.23A Site Xingda Steel Cord (Thailand) Ltd.
Date Analysis Commenced Oct 10, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, odourless, some solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	260	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Surawit Narapong หมายเลขประจำตัว 3-323-0-0011

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-0-0001

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S:\Reports_AL_GL-nt (5-24PM)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110269
Date Received : Oct 10, 2024
Date Reported : Oct 16, 2024
Report Number : 3120032-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-0-0001

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5307-88 DMSL

S:\Reports_AL_GL-nt (5-24PM)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110300
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120080-1

Page 1 of 2

Sample Number 24110300-1
Sampled Date Oct 04, 2024 3:40 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2567 Plot G.34A,G.35A,G.35 B Site YASUN ABRASIVES (THAILAND) CO.,LTD.
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	19.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	59	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	272	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Narunat thammassaro หมายเลขประจำตัว 3-323-0-0052

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-0-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-0-0001

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110300
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120080-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
โทรศัพท์ 323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-4-0001

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S:\Report\AL_GL-04 (7-4049)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110301
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120081-1

Page 2 of 2

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
โทรศัพท์ 323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-4-0001

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S:\Report\AL_GL-04 (7-4049)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110301
Date Received : Oct 04, 2024
Date Reported : Oct 10, 2024
Report Number : 3120081-1

Page 1 of 2

Sample Number 24110301-1
Sampled Date Oct 04, 2024 3:48 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2567 Plot G.36A,G.36B,G.36 C,G.36D,G.37A,G.3 7B Site YASUN ABRASIVES (THAILAND) CO.,LTD.

Location ๑๒๓๔๕๖๗
Date Analysis Commenced Oct 04, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	83.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	287	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	8.1	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	492	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	78	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Narunat thammasaro โทรศัพท์ 323-4-0052

Remark :

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
โทรศัพท์ 323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110309
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3120057-1

Page 1 of 2

Sample Number 24110309-1
Sampled Date Oct 07, 2024 2:23 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2565 Plot H.22 Site Yinlei Electric (Thailand) Co.,Ltd
Date Analysis Commenced Oct 07, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	39.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	110	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	456	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	22	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong โทรศัพท์ 323-4-0011, Pattarapol Sawangjaitam โทรศัพท์ 204-4-0002

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
โทรศัพท์ 323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24110309
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3120057-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas

Photchana Seeda
Scientist (4)
โทรศัพท์ 323-4-0028

Approved by

D. Chongchon

Dej Chongchon
Senior Manager
โทรศัพท์ 323-4-0001

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5307-001 (ENGL)

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0009
Lot ID: 24110309
Date Received : Oct 07, 2024
Date Reported : Oct 15, 2024
Report Number : 3120057-2

Page 1 of 1

Sample Number 24110309-1
Sampled Date Oct 07, 2024 2:23 PM
Sample Description Wastewater
Contract ID L-WHA ESIE2_006_2565 Plot H.22 Site Yinlei Electric (Thailand) Co.,Ltd
Date Analysis Commenced Oct 08, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOQ)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Chromium	mg/L	0.0003	0.0005	0.002	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.42	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong โทรศัพท์ 323-4-0011 , Pattarapol Sawangjailam โทรศัพท์ 204-4-0002

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chanatt

Chanattagan Inchoom
Section Head
โทรศัพท์ 204-4-0008

Approved by

Kanokkorn Anek

Kanokkorn Anek
Assistant General Manager
โทรศัพท์ 204-4-0004

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5307-001 (ENGL)

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123150
Date Received : Nov 12, 2024
Date Reported : Nov 18, 2024
Report Number : 3148916-1

Page 2 of 2

Sample Number	24123150-1						
Sample Date	Nov 12, 2024 11:01 AM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_001_2559	Plot	G.1,G.72	Site	AISIN POWERTRAIN (THAILAND) CO.,LTD.		
Date Analysis Commenced	Nov 12, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	13.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	71	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *		-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	724	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Pitthaya Thongtaeng

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas
Photchanas Seeda
Scientist (4)
โทรศัพท์ 3-323-4-0028

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123150
Date Received : Nov 12, 2024
Date Reported : Nov 18, 2024
Report Number : 3148916-1

Page 2 of 2

Sample Number	24123150-1						
Sample Date	Nov 12, 2024 11:01 AM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_001_2559	Plot	G.1,G.72	Site	AISIN POWERTRAIN (THAILAND) CO.,LTD.		
Date Analysis Commenced	Nov 12, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	13.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	71	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *		-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	724	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Pitthaya Thongtaeng

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas
Photchanas Seeda
Scientist (4)
โทรศัพท์ 3-323-4-0028

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123182
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148957-1

Page 2 of 2

Sample Number	24123182-1						
Sample Date	Nov 11, 2024 1:50 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2566	Plot	G.23	Site	ALILA HOME (THAILAND) CO.,LTD.		
Date Analysis Commenced	Nov 11, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	106	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	224	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *		-	-	8.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	620	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	39	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainorn Lertanankunchai

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkoch
Scientist (3)
โทรศัพท์ 3-323-4-0031

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123182
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148957-1

Page 2 of 2

Sample Number	24123182-1						
Sample Date	Nov 11, 2024 1:50 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2566	Plot	G.23	Site	ALILA HOME (THAILAND) CO.,LTD.		
Date Analysis Commenced	Nov 11, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	106	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	224	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *		-	-	8.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	620	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	39	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainorn Lertanankunchai

Remark :
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- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkoch
Scientist (3)
โทรศัพท์ 3-323-4-0031

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

TESTING

No.0042

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 24123158
Date Received : Nov 05, 2024
Date Reported : Nov 12, 2024
Report Number : 3148925-1

Page 1 of 2

Sample Number	24123158-1						
Sample Date	Nov 05, 2024 3:10 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2562	Plot	H.4	Site	Alliance Laundry (Thailand) Company Limited.		
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	138	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong เสร็จสิ้นการส่ง >323-0-0011

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เสร็จสิ้นการส่ง >323-0-0028

Approved by

Dej Changchon
Senior Manager
เสร็จสิ้นการส่ง >323-0-0001

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Analysis / Test Report

TESTING

No.0042

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 24123158
Date Received : Nov 05, 2024
Date Reported : Nov 12, 2024
Report Number : 3148925-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เสร็จสิ้นการส่ง >323-0-0028

Approved by

Dej Changchon
Senior Manager
เสร็จสิ้นการส่ง >323-0-0001

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Analysis / Test Report

TESTING

No.0042

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 24123148
Date Received : Nov 11, 2024
Date Reported : Nov 19, 2024
Report Number : 3148940-1

Page 1 of 2

Sample Number	24123148-1						
Sample Date	Nov 11, 2024 9:35 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_004_2564	Plot	G.55	Site	APEX International (Thailand) Co.,Ltd.		
Date Analysis Commenced	Nov 11, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	10.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	51	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.1	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	376	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainomsu Lertnathakunchai เสร็จสิ้นการส่ง >323-0-0041, Pattarapol Sawangjaitam เสร็จสิ้นการส่ง >204-0-0002

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เสร็จสิ้นการส่ง >323-0-0028

Approved by

Dej Changchon
Senior Manager
เสร็จสิ้นการส่ง >323-0-0001

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Analysis / Test Report

TESTING

No.0042

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 24123148
Date Received : Nov 11, 2024
Date Reported : Nov 19, 2024
Report Number : 3148940-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เสร็จสิ้นการส่ง >323-0-0028

Approved by

Dej Changchon
Senior Manager
เสร็จสิ้นการส่ง >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

Lot ID: 24123148
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148940-2

Page 1 of 1

Sample Number 24123148-1
Sampled Date Nov 11, 2024 9:35 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2564 Plot G.55 Site APEX International (Thailand) Co.,Ltd.
Date Analysis Commenced Nov 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-C B	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.27	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Chainusorn Lertnathakunchai วัฒนธนาชัย >323-4-0041, Pattarapol Savangjitam วัฒนธนาชัย >204-4-0002

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Sawitree N.
Manager
วัฒนธนาชัย >204-4-0007

Approved by Kanokorn Anek
Assistant General Manager
วัฒนธนาชัย >204-4-0004

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S:\Report\AL_GL-nt (9-0849)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

Lot ID: 24123169
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148941-1

Page 1 of 2

Sample Number 24123169-1
Sampled Date Nov 11, 2024 10:40 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2564 Plot G.47/G.49 Site BROSE (THAILAND) Co.,Ltd.
Date Analysis Commenced Nov 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	58.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	183	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	408	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	34	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Chainusorn Lertnathakunchai วัฒนธนาชัย >323-4-0041

Remark :
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- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management Photchana S.
Scientist (4)
วัฒนธนาชัย >323-4-0028

Approved by Dej Changchon
Senior Manager
วัฒนธนาชัย >323-4-0001

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S:\Report\AL_GL-nt (9-0849)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

Lot ID: 24123169
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148941-1

Page 2 of 2

Sample Number 24123163-1
Sampled Date Nov 11, 2024 9:30 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2562 Plot G-2 Site Canyon Asia (Thailand) Co.,Ltd.
Date Analysis Commenced Nov 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	256	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Chainusorn Lertnathakunchai วัฒนธนาชัย >323-4-0041

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management Photchana S.
Scientist (4)
วัฒนธนาชัย >323-4-0028

Approved by Dej Changchon
Senior Manager
วัฒนธนาชัย >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

Lot ID: 24123163
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148933-1

Page 1 of 2

Sample Number 24123163-1
Sampled Date Nov 11, 2024 9:30 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2562 Plot G-2 Site Canyon Asia (Thailand) Co.,Ltd.
Date Analysis Commenced Nov 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	256	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Chainusorn Lertnathakunchai วัฒนธนาชัย >323-4-0041

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management Photchana S.
Scientist (4)
วัฒนธนาชัย >323-4-0028

Approved by Dej Changchon
Senior Manager
วัฒนธนาชัย >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123163
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148933-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ 323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123181
Date Received : Nov 05, 2024
Date Reported : Nov 12, 2024
Report Number : 3148956-1

Page 1 of 2

Sample Number 24123181-1
Sampled Date Nov 05, 2024 3:03 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2566 Plot H.29 Site CHANG YUE INDUSTRIAL (THAILAND) CO.,LTD.
Date Analysis Commenced Nov 05, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	77.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	125	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	332	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	52	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Surawit Narapong โทรศัพท์ 323-4-0011

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ 323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123181
Date Received : Nov 05, 2024
Date Reported : Nov 12, 2024
Report Number : 3148956-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ 323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123144
Date Received : Nov 04, 2024
Date Reported : Nov 11, 2024
Report Number : 3148913-1

Page 1 of 2

Sample Number 24123144-1
Sampled Date Nov 04, 2024 1:59 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2566 Plot H.38 Site CHOENJIAN FABRIC (THAILAND) CO.,LTD.
Date Analysis Commenced Nov 04, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	3.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	21	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	17	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management

Chonticha S.

Chonticha Subongkroh
Scientist (3)
โทรศัพท์ 323-4-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ 323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24123144
Date Received : Nov 04, 2024
Date Reported : Nov 11, 2024
Report Number : 3148913-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Sample Number 24123144-1
Sampled Date Nov 04, 2024 1:59 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2566
Date Analysis Commenced Nov 04, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	29.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	236	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	30	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athomprommarat รหัสประจำตัว >323-a-0006 , Kardbundit Kitsupavanit รหัสประจำตัว >204-a-0001

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkoch
Scientist (3)
รหัสประจำตัว >323-a-0031

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-a-0001

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.

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Analysis / Test Report

TESTING

No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Sample Number 24123144-1
Sampled Date Nov 04, 2024 1:59 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2566
Date Analysis Commenced Nov 05, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.003	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.04	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.004	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Technical Management

Savitree N
Savitree Naisangam
Manager
รหัสประจำตัว >204-a-0007

Approved by

Kanokorn Anek
Assistant General Manager
รหัสประจำตัว >204-a-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24123144
Date Received : Nov 04, 2024
Date Reported : Nov 11, 2024
Report Number : 3148913-2

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Sample Number 24123144-1
Sampled Date Nov 04, 2024 1:59 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2566
Date Analysis Commenced Nov 05, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.001	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athomprommarat รหัสประจำตัว >323-a-0006 , Kardbundit Kitsupavanit รหัสประจำตัว >204-a-0001

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Savitree N
Savitree Naisangam
Manager
รหัสประจำตัว >204-a-0007

Approved by

Kanokorn Anek
Assistant General Manager
รหัสประจำตัว >204-a-0004

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Analysis / Test Report

TESTING

No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Sample Number 24123144-1
Sampled Date Nov 04, 2024 1:59 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2566
Date Analysis Commenced Nov 05, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.82	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	2.0	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athomprommarat , Kardbundit Kitsupavanit

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Savitree N
Savitree Naisangam
Manager

Approved by

Savitree N
Savitree Naisangam
Manager

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S:\Report\Hafal_AL_GL-nt (2-SMP)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123186
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148960-1

Page 1 of 2

Sample Number	24123186-1					
Sample Date	Nov 11, 2024 11:05 AM					
Sample Description	Wastewater					
Contract ID	L_WHA ESIE2_008_2566	Plot	G.13	Site	DILHI INDUSTRY (THAILAND) CO.,LTD.	
Date Analysis Commenced	Nov 11, 2024					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)					
Physical Property	Yellow, a lot of odour, some solid and turbid					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	110	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G Rayong
COD	mg/L	1.5	25	280	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B) Rayong
Temperature *	Degree C	-	-	30.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	452	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	31	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnathakunchai เจริญธรรม เจริญธรรม >323-4-0041

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chontichaek
Chonticha Subongkroh
Scientist (3)
เจริญธรรม >323-4-0031

Approved by

Dej Changchon
Senior Manager
เจริญธรรม >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123186
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148960-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichaek
Chonticha Subongkroh
Scientist (3)
เจริญธรรม >323-4-0031

Approved by

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Senior Manager
เจริญธรรม >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123193
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148969-1

Page 1 of 2

Sample Number	24123193-1					
Sample Date	Nov 11, 2024 3:45 PM					
Sample Description	Wastewater					
Contract ID	L_WHA ESIE2_007_2567	Plot	G.58A/G.58B	Site	EASTSEA INTERNATIONAL (THAILAND) COMPANY LIMITED	
Date Analysis Commenced	Nov 11, 2024					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)					
Physical Property	Yellow, some odour, solid and no turbid					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B Rayong
pH (on site) *	-	-	-	8.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B) Rayong
Temperature *	Degree C	-	-	29.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	170	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnathakunchai เจริญธรรม เจริญธรรม >323-4-0041

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Chontichaek
Chonticha Subongkroh
Scientist (3)
เจริญธรรม >323-4-0031

Approved by

Dej Changchon
Senior Manager
เจริญธรรม >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123193
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148969-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Chonticha Subongkroh
Scientist (3)
เจริญธรรม >323-4-0031

Approved by

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Senior Manager
เจริญธรรม >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123180
Date Received : Nov 12, 2024
Date Reported : Nov 18, 2024
Report Number : 3148955-1

Page 1 of 2

Sample Number	24123180-1						
Sample Date	Nov 12, 2024 11:12 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_001_2566	Plot	H.5	Site	Enrich Industrial (Thai) Co., Ltd.		
Date Analysis Commenced	Nov 12, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	38.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	109	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	452	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	35	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong เสร็จงานเสร็จ >323-n-0011

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Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
เสร็จงานเสร็จ >323-n-0028

Approved by

Dej Changchon
Senior Manager
เสร็จงานเสร็จ >323-n-0001

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5327-88/ ENGL

5/Report/AL_GL.net (3.28PM)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123180
Date Received : Nov 12, 2024
Date Reported : Nov 18, 2024
Report Number : 3148955-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
เสร็จงานเสร็จ >323-n-0028

Approved by

Dej Changchon
Senior Manager
เสร็จงานเสร็จ >323-n-0001

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5327-88/ ENGL

5/Report/AL_GL.net (3.28PM)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123151
Date Received : Nov 12, 2024
Date Reported : Nov 18, 2024
Report Number : 3148917-1

Page 1 of 2

Sample Number	24123151-1						
Sample Date	Nov 12, 2024 1:32 PM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_001_2560	Plot	H.1	Site	Fabrinet Co., Ltd.		
Date Analysis Commenced	Nov 12, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	64.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	123	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	364	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	57	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chaiusorn Lertanithakunchai เสร็จงานเสร็จ >323-n-0041

Remark :
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Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
เสร็จงานเสร็จ >323-n-0028

Approved by

Dej Changchon
Senior Manager
เสร็จงานเสร็จ >323-n-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123151
Date Received : Nov 12, 2024
Date Reported : Nov 18, 2024
Report Number : 3148917-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
เสร็จงานเสร็จ >323-n-0028

Approved by

Dej Changchon
Senior Manager
เสร็จงานเสร็จ >323-n-0001

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5/Report/AL_GL.net (3.14PM)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123153
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148918-1

Page 1 of 2

Sample Number	24123153-1						
Sample Date	Nov 11, 2024 10:15 AM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_001_2561	Plot	G.48, G.50, G.52, G.54	Site	FIRST MATERIAL SCIENCE (THAILAND) LTD.		
Date Analysis Commenced	Nov 11, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	105	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	316	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	8.1	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	476	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	46	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnathakunchai เจริญนาคันชู >323-4-0041

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เบญจมาศ >323-4-0028

Approved by

Dej Changchon
Senior Manager
เบญจมาศ >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123153
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148918-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เบญจมาศ >323-4-0028

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เบญจมาศ >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123184
Date Received : Nov 05, 2024
Date Reported : Nov 12, 2024
Report Number : 3148958-1

Page 1 of 2

Sample Number	24123184-1						
Sample Date	Nov 05, 2024 2:56 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_004_2566	Plot	H.31	Site	FLOOR MASTERS (THAILAND) CO.,LTD.		
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	56.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	155	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	272	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	28	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong สุรวิตนารอง >323-4-0011

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เบญจมาศ >323-4-0028

Approved by

Dej Changchon
Senior Manager
เบญจมาศ >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123184
Date Received : Nov 05, 2024
Date Reported : Nov 12, 2024
Report Number : 3148958-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เบญจมาศ >323-4-0028

Approved by

Dej Changchon
Senior Manager
เบญจมาศ >323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24123157

Date Received : Nov 05, 2024

Date Reported : Nov 12, 2024

Report Number : 3148924-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 24123157-1
Sample Date Nov 05, 2024 2:28 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2562
Date Analysis Commenced Nov 05, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	10.4	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	216	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วณิชชาพร >323-4-0028

Approved by

Dej Changchon
Senior Manager
วณิชชาพร >323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24123157

Date Received : Nov 05, 2024

Date Reported : Nov 12, 2024

Report Number : 3148924-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วณิชชาพร >323-4-0028

Approved by

Dej Changchon
Senior Manager
วณิชชาพร >323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24123164

Date Received : Nov 11, 2024

Date Reported : Nov 18, 2024

Report Number : 3148934-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Sample Number 24123164-1
Sample Date Nov 11, 2024 10:05 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2563
Date Analysis Commenced Nov 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	46.9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	125	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	276	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	41	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainosorn Lertnathakunchai

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วณิชชาพร >323-4-0028

Approved by

Dej Changchon
Senior Manager
วณิชชาพร >323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24123164

Date Received : Nov 11, 2024

Date Reported : Nov 18, 2024

Report Number : 3148934-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วณิชชาพร >323-4-0028

Approved by

Dej Changchon
Senior Manager
วณิชชาพร >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

Lot ID: 24123145
Date Received : Nov 04, 2024
Date Reported : Nov 11, 2024
Report Number : 3148914-3

Page 1 of 1

Sample Number	24123145-1						
Sampled Date	Nov 04, 2024 1:48 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_006_2566	Plot	G.43	Site	INFORM-UMH (THAILAND) CO.,LTD.		
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.66	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3039 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Nattawut Ahomprommarat , Kardbundit Kitisupavant

Remark :
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Approved by

Savitree N.
Savitree Noinangiam
Manager

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 24123177
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148946-1

Page 1 of 2

Sample Number	24123177-1						
Sampled Date	Nov 11, 2024 2:30 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2565	Plot	G.29A, G.29B, G.29C	Site	Jalon (Thailand) Co.,Ltd.		
Date Analysis Commenced	Nov 11, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	15.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	74	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	232	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	16	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Chainusorn Lertnathakunchai เจริญนัทธกัญชัย >323-n-0041

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
เจริญนัทธ >323-n-0028

Approved by

Dej Changchon
Senior Manager
เจริญนัทธ >323-n-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 24123177
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148946-1

Page 2 of 2

Sample Number	24123177-1						
Sampled Date	Nov 11, 2024 1:30 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_008_2564	Plot	G.62A, G.62B	Site	Jofo Nonwoven (Thailand) Co.,Ltd.		
Date Analysis Commenced	Nov 11, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	31.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	100	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1976	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	26	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Chainusorn Lertnathakunchai เจริญนัทธกัญชัย >323-n-0041

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
เจริญนัทธ >323-n-0028

Approved by

Dej Changchon
Senior Manager
เจริญนัทธ >323-n-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123172
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148944-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-0-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123187
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148961-1

Page 1 of 2

Sample Number 24123187-1
Sampled Date Nov 11, 2024 2:40 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2567 Plot G.33A, G.33B, G.33C Site JOINHANDS INJECTION SYSTEM (THAILAND) COMPANY LIMITED
Date Analysis Commenced Nov 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	183	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	311	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	13	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	292	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	43	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnanthakunchai หมายเลขประจำตัว >323-0-0041

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
หมายเลขประจำตัว >323-0-0031

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123187
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148961-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
หมายเลขประจำตัว >323-0-0031

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123192
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148967-1

Page 1 of 2

Sample Number 24123192-1
Sampled Date Nov 11, 2024 11:15 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2567 Plot G.18 Site Kingdean Electric (Thailand) Co.,Ltd.
Date Analysis Commenced Nov 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Colorless, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	8.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	162	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnanthakunchai หมายเลขประจำตัว >323-0-0041

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
หมายเลขประจำตัว >323-0-0031

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-0-0001

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123192
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148967-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
เบญจมาศพร >323-0-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบญจมาศพร >323-0-0001

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123188
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148963-1

Page 2 of 2

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Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
เบญจมาศพร >323-0-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบญจมาศพร >323-0-0001

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123188
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148963-1

Page 1 of 2

Sample Number 24123188-1
Sampled Date Nov 11, 2024 2:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2567 Plot G.22 Site LEADING WHEEL CO.,LTD.
Date Analysis Commenced Nov 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	229	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	497	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	7	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.1	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	640	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	54	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnanthakunchai เบญจมาศพร >323-0-0041

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Chontichak

Chonticha Subongkoch
Scientist (3)
เบญจมาศพร >323-0-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบญจมาศพร >323-0-0001

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123166
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148937-1

Page 1 of 2

Sample Number 24123166-1
Sampled Date Nov 11, 2024 9:55 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2564 Plot G.51 Site Linak Apac Co.,Ltd.
Date Analysis Commenced Nov 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	176	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnanthakunchai เบญจมาศพร >323-0-0041

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Technical Management

Photchanas

Photchanas Seeda
Scientist (4)
เบญจมาศพร >323-0-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบญจมาศพร >323-0-0001

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123166
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148937-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunso

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123171
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148943-1

Page 1 of 2

Sample Number 24123171-1
Sampled Date Nov 11, 2024 11:30 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2564 Plot G.16 Site Luobang Kitchen&Bath (Thailand) Co., Ltd.
Date Analysis Commenced Nov 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	36.8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	104	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	252	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	23	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnanthakunchai หมายเลขประจำตัว >323-4-0041

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunso

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123171
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148943-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunso

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123165
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148936-1

Page 1 of 2

Sample Number 24123165-1
Sampled Date Nov 11, 2024 1:45 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2563 Plot G.20 Site OCEANCASH (THAILAND) Co., Ltd.
Date Analysis Commenced Nov 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	39.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	110	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	268	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	31	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnanthakunchai หมายเลขประจำตัว >323-4-0041

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunso

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123165
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148936-1

Page 2 of 2

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Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
โทรศัพท์ 323-00028

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ 323-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123176
Date Received : Nov 12, 2024
Date Reported : Nov 18, 2024
Report Number : 3148947-1

Page 1 of 2

Sample Number 24123176-1
Sampled Date Nov 12, 2024 11:45 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2565 Plot 1.2A Site Primax Electronics (Thailand) Co., Ltd.
Date Analysis Commenced Nov 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	172	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	329	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	9	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	456	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	72	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Surawit Narapong โทรศัพท์ 323-0001

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
โทรศัพท์ 323-00028

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ 323-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123176
Date Received : Nov 12, 2024
Date Reported : Nov 18, 2024
Report Number : 3148947-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
โทรศัพท์ 323-00028

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ 323-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123170
Date Received : Nov 05, 2024
Date Reported : Nov 12, 2024
Report Number : 3148942-1

Page 1 of 2

Sample Number 24123170-1
Sampled Date Nov 05, 2024 2:48 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2564 Plot H-30 Site Prussia (Asia) Co., Ltd.
Date Analysis Commenced Nov 05, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	21.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	75	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	288	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	20	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Surawit Narapong โทรศัพท์ 323-0001

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
โทรศัพท์ 323-00028

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ 323-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123170
Date Received : Nov 05, 2024
Date Reported : Nov 12, 2024
Report Number : 3148942-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ 323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123152
Date Received : Nov 05, 2024
Date Reported : Nov 12, 2024
Report Number : 3148919-1

Page 1 of 2

Sample Number 24123152-1
Sampled Date Nov 05, 2024 3:29 PM
Sample Description Wastewater
Contract ID L_HESIE2_002_2560 Plot H.8 Site SAIC MOTOR-CP CO.,LTD.
Date Analysis Commenced Nov 05, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	21.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	67	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	364	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	39	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong โทรศัพท์ 323-4-0011

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ 323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123152
Date Received : Nov 05, 2024
Date Reported : Nov 12, 2024
Report Number : 3148919-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ 323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123167
Date Received : Nov 05, 2024
Date Reported : Nov 12, 2024
Report Number : 3148938-1

Page 1 of 2

Sample Number 24123167-1
Sampled Date Nov 05, 2024 2:20 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2564 Plot H.36 Site San Ho Precision Industrial Co.,Ltd.
Date Analysis Commenced Nov 05, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	126	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong โทรศัพท์ 323-4-0011

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ 323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
โทรศัพท์ 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123167
Date Received : Nov 05, 2024
Date Reported : Nov 12, 2024
Report Number : 3148939-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-n-0028

Approved by

D. Khunru

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-n-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123168
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148939-1

Page 1 of 2

Sample Number 24123168-1
Sampled Date Nov 11, 2024 9:50 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_003_2564 Plot G-53 Site Sanko Plastics (Thailand) Co.,Ltd.
Date Analysis Commenced Nov 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	42.4	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	160	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	336	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	44	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnathakunchai หมายเลขประจำตัว >323-n-0041

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-n-0028

Approved by

D. Khunru

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-n-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123168
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148939-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-n-0028

Approved by

D. Khunru

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-n-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123168
Date Received : Nov 05, 2024
Date Reported : Nov 12, 2024
Report Number : 3148927-1

Page 1 of 2

Sample Number 24123160-1
Sampled Date Nov 05, 2024 2:10 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2562 Plot H-35 Site SEAH GLOBAL (THAILAND) CO.,LTD.
Date Analysis Commenced Nov 05, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	375	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	799	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	712	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	137	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong หมายเลขประจำตัว >323-n-0011

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

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หมายเลขประจำตัว >323-n-0028

Approved by

D. Khunru

Dej Changchon
Senior Manager
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2



TESTING
No.0042
Lot ID: 24123160
Date Received : Nov 05, 2024
Date Reported : Nov 12, 2024
Report Number : 3148927-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2



TESTING
No.0042
Lot ID: 24123173
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148945-1

Page 1 of 2

Sample Number 24123173-1
Sampled Date Nov 11, 2024 11:10 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_009_2564 Plot G.17/G.15,G.12A Site SEITEK INTERNATIONAL (THAILAND) CO.,LTD.
Date Analysis Commenced Nov 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	12.8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	40	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	192	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnathakunchai โทรศัพท์ +323-4-0041

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2



TESTING
No.0042
Lot ID: 24123173
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148945-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2



TESTING
No.0042
Lot ID: 24123154
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148920-1

Page 1 of 2

Sample Number 24123154-1
Sampled Date Nov 11, 2024 2:20 PM
Sample Description Wastewater
Contract ID L_HESIE2_002_2561 Plot G.28 Site SGF (THAILAND) CO.,LTD.
Date Analysis Commenced Nov 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	43.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	150	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	412	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	30	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnathakunchai โทรศัพท์ +323-4-0041

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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TESTING

Lot ID: 24123154
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148920-1

• The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Page 2 of 2



TESTING

Lot ID: 24123161
Date Received : Nov 12, 2024
Date Reported : Nov 18, 2024
Report Number : 3148928-1

Page 1 of 2

Sample Number	24123161-1						
Sampled Date	Nov 12, 2024 11:56 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_006_2562	Plot	I-3,I:3-B	Site	SIAM YAMATO STEEL COMPANY LIMITED.		
Date Analysis Commenced	Nov 12, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA) (USEPA)						
Physical Property	Yellow, a lot of odor, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	19.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	57	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	388	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Surawit Narapong โทร.09-323-8-0011

Remark :

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TESTING

Lot ID: 24123161
Date Received : Nov 12, 2024
Date Reported : Nov 18, 2024
Report Number : 3148928-1

* The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Page 2 of 2



TESTING

Lot ID: 24123179
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148954-1

Page 1 of 2

Sample Number	24123179-1						
Sampled Date	Nov 11, 2024 10:50 AM						
Sample Description	Wastewater						
Contract ID	L_WHA	Plot	G.11	Site	SIGNODE (Thailand) LTD.		
Date Analysis Commenced	ESIE2_007_2565 Nov 11, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	14.8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	92	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2500 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	496	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	20	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Remark :

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123179
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148954-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Approved by

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123159
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148926-1

Page 1 of 2

Sample Number 24123159-1
Sampled Date Nov 11, 2024 10:55 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2562 Plot G.12 Site Surface Treatment Technology (Thailand) Co., Ltd.
Date Analysis Commenced Nov 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	27.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	119	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	220	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	32	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnathakunchai โทรศัพท์ +323-4-0041

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123159
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148926-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123155
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148922-1

Page 1 of 2

Sample Number 24123155-1
Sampled Date Nov 11, 2024 9:20 AM
Sample Description Wastewater
Contract ID L_HESIE2_003_2561 Plot G.3, G.4, G.5 Site Toagosei (Thailand) Co., Ltd.
Date Analysis Commenced Nov 11, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	31.4	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	80	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	35.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	208	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnathakunchai โทรศัพท์ +323-4-0041

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
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Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทรศัพท์ +323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123155
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148922-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123174
Date Received : Nov 12, 2024
Date Reported : Nov 18, 2024
Report Number : 3148946-1

Page 1 of 2

Sample Number 24123174-1
Sampled Date Nov 12, 2024 11:50 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2565 Plot 1.28 Site Tympany Acoustic Technology (Thailand) Co., Ltd.
Date Analysis Commenced Nov 12, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	76.9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	163	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	428	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	52	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Surawit Narapong หมายเลขประจำตัว 323-4-0011

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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123174
Date Received : Nov 12, 2024
Date Reported : Nov 18, 2024
Report Number : 3148946-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123143
Date Received : Nov 04, 2024
Date Reported : Nov 11, 2024
Report Number : 3148912-1

Page 1 of 2

Sample Number 24123143-1
Sampled Date Nov 04, 2024 2:15 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2565 Plot H.14 Site TYNO HOME (THAILAND) CO., LTD.
Date Analysis Commenced Nov 04, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	17.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	63	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	47	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	43	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	8.0	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว 323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24123143
Date Received : Nov 04, 2024
Date Reported : Nov 11, 2024
Report Number : 3148912-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Page 2 of 2

Sample Number	24123143-1						
Sampled Date	Nov 04, 2024 2:15 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_005_2565	Plot	H.14	Site	TYNO HOME (THAILAND) CO.,LTD		
Date Analysis Commenced	Nov 04, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	30.2	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	212	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	21	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athomprommarat รหัสประจำตัว >323-๙-0006 , Kardbundit Kitsupavanit รหัสประจำตัว >204-๙-0001

Remark :
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- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-๙-0028

Approved by

Dej Changchon

Senior Manager
รหัสประจำตัว >323-๙-0001

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Analysis / Test Report

TESTING

No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Page 1 of 2

Sample Number	24123143-1						
Sampled Date	Nov 04, 2024 2:15 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_005_2565	Plot	H.14	Site	TYNO HOME (THAILAND) CO.,LTD		
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.08	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.008	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.04	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Technical Management

Savitree N.

Savitree Naisangam
Manager
รหัสประจำตัว >204-๙-0007

Approved by

Kanokorn Anek

Assistant General Manager
รหัสประจำตัว >204-๙-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24123143
Date Received : Nov 04, 2024
Date Reported : Nov 11, 2024
Report Number : 3148912-2

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Page 2 of 2

Sample Number	24123143-1						
Sampled Date	Nov 04, 2024 2:15 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_005_2565	Plot	H.14	Site	TYNO HOME (THAILAND) CO.,LTD		
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athomprommarat รหัสประจำตัว >323-๙-0006 , Kardbundit Kitsupavanit รหัสประจำตัว >204-๙-0001

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Technical Management

Savitree N.

Savitree Naisangam
Manager
รหัสประจำตัว >204-๙-0007

Approved by

Kanokorn Anek

Assistant General Manager
รหัสประจำตัว >204-๙-0004

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Analysis / Test Report

TESTING

No.0009

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Page 1 of 1

Sample Number	24123143-1						
Sampled Date	Nov 04, 2024 2:15 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_005_2565	Plot	H.14	Site	TYNO HOME (THAILAND) CO.,LTD		
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.36	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athomprommarat , Kardbundit Kitsupavanit

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123190
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148965-1

Page 1 of 2

Sample Number	24123190-1						
Sample Date	Nov 11, 2024 2:50 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_004_2567	Plot	G.34A,G.35A,G.35 B	Site	YASUN ABRASIVES (THAILAND) CO.,LTD.		
Date Analysis Commenced	Nov 11, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	19.8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	77	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	156	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	28	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnathakunchai เชนนศอรณ เลรัตนถกนุชชัย >323-0-0041

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chontichaek
Chonticha Subongkroh
Scientist (3)
เบญจมาศพร >323-0-0031

Approved by

Dej Changchon
Senior Manager
เบญจมาศพร >323-0-0001

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ALS LABORATORY GROUP (THAILAND) CO. LTD. An ALS Limited Company



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123190
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148965-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.							
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Technical Management

Chontichaek
Chonticha Subongkroh
Scientist (3)
เบญจมาศพร >323-0-0031

Approved by

Dej Changchon
Senior Manager
เบญจมาศพร >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123191
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148966-1

Page 1 of 2

Sample Number	24123191-1						
Sample Date	Nov 11, 2024 3:00 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_005_2567	Plot	G.36A,G.36B,G.36 C,G.36D,G.37A,G.3 7B	Site	YASUN ABRASIVES (THAILAND) CO.,LTD.		
Location	อภะพาร						
Date Analysis Commenced	Nov 11, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	138	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	309	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	8.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	436	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	63	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnathakunchai เชนนศอรณ เลรัตนถกนุชชัย >323-0-0041

Remark :

Technical Management

Chontichaek
Chonticha Subongkroh
Scientist (3)
เบญจมาศพร >323-0-0031

Approved by

Dej Changchon
Senior Manager
เบญจมาศพร >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24123191
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148966-1

Page 2 of 2

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---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	--	--	--	--

Technical Management

Chontichaek
Chonticha Subongkroh
Scientist (3)
เบญจมาศพร >323-0-0031

Approved by

Dej Changchon
Senior Manager
เบญจมาศพร >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 241.23147
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148951-1

Page 1 of 2

Sample Number	24123147-1						
Sample Date	Nov 11, 2024 3:10 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_006_2565	Plot	H.22	Site	Yinlei Electric (Thailand) Co.,Ltd		
Date Analysis Commenced	Nov 11, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	87.7	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	312	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.8	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	5860	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	26	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnathakunchai รับผิดชอบ 323-0-0041, Pattarapol Sawangjaitam รับผิดชอบ 323-0-0002

Remark :
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- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
รับผิดชอบ 323-0-0028

Approved by

Dej Changchon
Senior Manager
รับผิดชอบ 323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 241.23147
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148951-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
รับผิดชอบ 323-0-0028

Approved by

Dej Changchon
Senior Manager
รับผิดชอบ 323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0009
Lot ID: 241.23147
Date Received : Nov 11, 2024
Date Reported : Nov 18, 2024
Report Number : 3148951-2

Page 1 of 1

Sample Number	24123147-1						
Sample Date	Nov 11, 2024 3:10 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_006_2565	Plot	H.22	Site	Yinlei Electric (Thailand) Co.,Ltd		
Date Analysis Commenced	Nov 12, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Chromium	mg/L	0.0003	0.0005	0.003	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	1.18	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnathakunchai รับผิดชอบ 323-0-0041, Pattarapol Sawangjaitam รับผิดชอบ 323-0-0002

Remark :
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Savitree N.
Savitree Noisangam
Manager
รับผิดชอบ 204-0-0007

Approved by

Kanokorn Anek
Assistant General Manager
รับผิดชอบ 204-0-0004

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133424
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176270-1

Page 1 of 2

Sample Number	24133424-1						
Sample Date	Dec 09, 2024 10:55 AM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_001_2559	Plot	G.1,G.72	Site	AISIN POWERTRAIN (THAILAND) CO.,LTD.		
Date Analysis Commenced	Dec 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	6.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	41	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	868	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chaiusorn Lertnathakunchai เสร็จสิ้นการสุ่ม >323-0041

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เสร็จสิ้นการสุ่ม >323-0028

Approved by

Dej Changchon
Senior Manager
เสร็จสิ้นการสุ่ม >323-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133424
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176270-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เสร็จสิ้นการสุ่ม >323-0028

Approved by

Dej Changchon
Senior Manager
เสร็จสิ้นการสุ่ม >323-0001

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S:\Report\AL_GL_rpt (7-649)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133458
Date Received : Dec 02, 2024
Date Reported : Dec 09, 2024
Report Number : 3176387-1

Page 1 of 2

Sample Number	24133458-1						
Sample Date	Dec 02, 2024 3:00 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2566	Plot	G.23	Site	ALILA HOME (THAILAND) CO.,LTD.		
Date Analysis Commenced	Dec 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	110	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	253	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	412	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	47	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun เสร็จสิ้นการสุ่ม >323-0051

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เสร็จสิ้นการสุ่ม >323-0028

Approved by

Dej Changchon
Senior Manager
เสร็จสิ้นการสุ่ม >323-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133458
Date Received : Dec 02, 2024
Date Reported : Dec 09, 2024
Report Number : 3176387-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เสร็จสิ้นการสุ่ม >323-0028

Approved by

Dej Changchon
Senior Manager
เสร็จสิ้นการสุ่ม >323-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133432
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176284-1

Page 1 of 2

Sample Number	24133432-1						
Sampled Date	Dec 09, 2024 11:25 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2562	Plot	H.4	Site	Alliance Laundry (Thailand) Company Limited.		
Date Analysis Commenced	Dec 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	17.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	58	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	176	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawut Athornprommarat รหัสประจำตัว >323-0-0006

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-0-0028

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133432
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176284-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-0-0028

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133423
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176372-1

Page 1 of 2

Page 1 of 2

Sample Number	24133423-1								
Sample Date	Dec 09, 2024 9:40 AM								
Sample Description	Wastewater								
Contract ID	L_WHA	Plot	G.55	Site	APEX International (Thailand) Co.,Ltd.				
Date Analysis Commenced	Dec 09, 2024								
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)								
Physical Property	Yellow, some odour, solid and turbid								
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location		
Water Testing									
BOD (5 days at 20 Degree C)	mg/L	-	2.0	8.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong		
COD	mg/L	1.5	25	50	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong		
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong		
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong		
Temperature *	Degree C	-	-	28.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong		
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	348	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong		
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong		

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainomsorn Lertnankhunchai รหัสประจำตัว >323-0-0041, Sombon Butchan รหัสประจำตัว >204-0-0069

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-0-0028

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133423
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176372-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-0-0028

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0009
Lot ID: 24133423
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176372-2

Page 1 of 1

Sample Number 24133423-1
Sampled Date Dec 09, 2024 9:40 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2564 Plot G.55 Site APEX International (Thailand) Co.,Ltd.
Date Analysis Commenced Dec 10, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-C B	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.30	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Chainusorn Lertnathakunchai เสร็จสิ้นการสุ่มตัวอย่าง >323-0-0041, Sornboon Buthan เสร็จสิ้นการสุ่มตัวอย่าง >204-0-0069

Remark :
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chanatt L.
Chanattagarn Inthom
Section Head
เสร็จสิ้นการสุ่มตัวอย่าง >204-0-0008

Approved by Kanokorn Anek
Assistant General Manager
เสร็จสิ้นการสุ่มตัวอย่าง >204-0-0004

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133445
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176373-1

Page 1 of 2

Sample Number 24133445-1
Sampled Date Dec 09, 2024 10:30 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2564 Plot G.47/G.49 Site BROSE (THAILAND) Co.,Ltd.
Date Analysis Commenced Dec 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	60.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	183	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	392	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	39	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Chainusorn Lertnathakunchai เสร็จสิ้นการสุ่มตัวอย่าง >323-0-0041

Remark :
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Technical Management Chonticha K.
Chonticha Subongkoch
Scientist (3)
เสร็จสิ้นการสุ่มตัวอย่าง >323-0-0031

Approved by Dej Changchon
Senior Manager
เสร็จสิ้นการสุ่มตัวอย่าง >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133445
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176373-1

Page 2 of 2

Sample Number 24133438-1
Sampled Date Dec 09, 2024 9:30 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2562 Plot G-2 Site Canyon Asia (Thailand) Co.,Ltd.
Date Analysis Commenced Dec 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	16.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	56	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	268	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Chainusorn Lertnathakunchai เสร็จสิ้นการสุ่มตัวอย่าง >323-0-0041

Remark :
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Technical Management Chonticha K.
Chonticha Subongkoch
Scientist (3)
เสร็จสิ้นการสุ่มตัวอย่าง >323-0-0031

Approved by Dej Changchon
Senior Manager
เสร็จสิ้นการสุ่มตัวอย่าง >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133438
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176296-1

Page 1 of 2

Sample Number 24133438-1
Sampled Date Dec 09, 2024 9:30 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2562 Plot G-2 Site Canyon Asia (Thailand) Co.,Ltd.
Date Analysis Commenced Dec 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	16.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	56	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	268	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Chainusorn Lertnathakunchai เสร็จสิ้นการสุ่มตัวอย่าง >323-0-0041

Remark :
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Technical Management Photchana S.
Photchana Seeda
Scientist (4)
เสร็จสิ้นการสุ่มตัวอย่าง >323-0-0028

Approved by Dej Changchon
Senior Manager
เสร็จสิ้นการสุ่มตัวอย่าง >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133438
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176296-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133457
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176386-1

Page 1 of 2

Sample Number 24133457-1
Sampled Date Dec 09, 2024 10:50 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2566 Plot H.29 Site CHANG YUE INDUSTRIAL (THAILAND) CO., LTD.
Date Analysis Commenced Dec 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, some odour, a lot of solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	37.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	151	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	10	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.3	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	484	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	78	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athonprommarat หมายเลขประจำตัว 3-323-4-0006

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-4-0001

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S:\Report\AL_GL.net (10-544)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133457
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176386-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 3-323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133460
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176395-1

Page 1 of 2

Sample Number 24133460-1
Sampled Date Dec 09, 2024 10:00 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2566 Plot H.38 Site CHOENJIAN FABRIC (THAILAND) CO., LTD.
Date Analysis Commenced Dec 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	13.8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	52	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	8.1	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	26.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	452	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athonprommarat หมายเลขประจำตัว 3-323-4-0006

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Chonticha S.

Chonticha Subongkroh
Scientist (3)
หมายเลขประจำตัว 3-323-4-0031

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลขประจำตัว 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133460
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176395-1

Page 2 of 2

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkoch
Scientist (3)
โทรศัพท์ ๐-๓๒๓-๐๐๐๓

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ ๐-๓๒๓-๐๐๐๑

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133463
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3179648-1

Page 1 of 2

Sample Number 24133463-1
Sampled Date Dec 02, 2024 10:25 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2566 Plot G.13 Site DILIH INDUSTRI (THAILAND) CO., LTD.
Date Analysis Commenced Dec 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	95.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	174	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	172	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	169	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	8.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
โทรศัพท์ ๐-๓๒๓-๐๐๐๘

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ ๐-๓๒๓-๐๐๐๑

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133463
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3179648-1

Page 2 of 2

Sample Number 24133463-1
Sampled Date Dec 02, 2024 10:25 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2566 Plot G.13 Site DILIH INDUSTRI (THAILAND) CO., LTD.
Date Analysis Commenced Dec 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.09	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	29.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	344	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	65	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun โทรศัพท์ ๐-๓๒๓-๐๐๐๑, Thanosun Namakunna โทรศัพท์ ๐-๓๒๓-๐๐๐๑

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
โทรศัพท์ ๐-๓๒๓-๐๐๐๘

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ ๐-๓๒๓-๐๐๐๑

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

TESTING
No.0009
Lot ID: 24133463
Date Received : Dec 02, 2024
Date Reported : Dec 10, 2024
Report Number : 3179648-2

Page 1 of 2

Sample Number 24133463-1
Sampled Date Dec 02, 2024 10:25 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2566 Plot G.13 Site DILIH INDUSTRI (THAILAND) CO., LTD.
Date Analysis Commenced Dec 03, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.09	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.03	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.010	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.09	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Technical Management

Savitree N.
Savitree Naisangam
Manager
โทรศัพท์ ๐-๓๒๓-๐๐๐๗

Approved by

Kanokorn Anek
Assistant General Manager
โทรศัพท์ ๐-๓๒๓-๐๐๐๔

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Lot ID: 24133463
Date Received : Dec 02, 2024
Date Reported : Dec 10, 2024
Report Number : 3179648-2

Page 2 of 2

Sample Number	24133463-1						
Sampled Date	Dec 02, 2024 10:25 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_008_2566	Plot	G.13	Site	DILHI INDUSTRY (THAILAND) CO., LTD.		
Date Analysis Commenced	Dec 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.01	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	0.0008	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	1.43	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun รหัสประจำตัว >323-a-0051, Thanassou Namakunna รหัสประจำตัว >204-a-0101

Remark :
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Technical Management
Sawitree N.
Sawitree Nonsangam
Manager
รหัสประจำตัว >204-a-0007

Approved by
Kankorn Anek
Kankorn Anek
Assistant General Manager
รหัสประจำตัว >204-a-0004

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Lot ID: 24133463
Date Received : Dec 02, 2024
Date Reported : Dec 10, 2024
Report Number : 3179648-3

Page 1 of 1

Sample Number	24133463-1						
Sampled Date	Dec 02, 2024 10:25 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_008_2566 Dec 03, 2024	Plot	G.13	Site	DILHI INDUSTRY (THAILAND) CO., LTD.		
Date Analysis Commenced	Dec 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	3.40	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun , Thanassou Namakunna

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Approved by
Sawitree N.
Sawitree Nonsangam
Manager

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

Lot ID: 24133470
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176409-1

Page 1 of 2

Sample Number	24133470-1						
Sampled Date	Dec 09, 2024 10:05 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_007_2567	Plot	G.58A,G.58B	Site	EASTSEA INTERNATIONAL (THAILAND) COMPANY LIMITED		
Date Analysis Commenced	Dec 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	37.4	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	139	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	8.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.4	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	452	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	33	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Chainosorn Lertnathakunchai รหัสประจำตัว >323-a-0041

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management
Chontichak
Chontichak Subongkoch
Scientist (3)
รหัสประจำตัว >323-a-0031

Approved by
Dej Changchon
Dej Changchon
Senior Manager
รหัสประจำตัว >323-a-0001

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S/Report/AL_GL-08 (10-3649)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

Lot ID: 24133470
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176409-1

Page 2 of 2

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page 2 of 2

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Chainosorn Lertnathakunchai รหัสประจำตัว >323-a-0041

Remark :
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Technical Management
Chontichak
Chontichak Subongkoch
Scientist (3)
รหัสประจำตัว >323-a-0031

Approved by
Dej Changchon
Dej Changchon
Senior Manager
รหัสประจำตัว >323-a-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133456
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176385-1

Page 1 of 2

Sample Number	24133456-1						
Sample Date	Dec 09, 2024 2:00 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_001_2566	Plot	H.5	Site	Enrich Industrial (Thai) Co., Ltd.		
Date Analysis Commenced	Dec 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	18.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	60	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	380	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	16	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawut Athomprommarat นวตพรหมารัตน์ 3-323-0006

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
นพตพรหมารัตน์ 3-323-0008

Approved by

Dej Changchon
Senior Manager
นพตพรหมารัตน์ 3-323-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133456
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176385-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
นพตพรหมารัตน์ 3-323-0008

Approved by

Dej Changchon
Senior Manager
นพตพรหมารัตน์ 3-323-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133425
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176272-1

Page 1 of 2

Sample Number	24133425-1						
Sample Date	Dec 09, 2024 2:40 PM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_001_2560	Plot	H.1	Site	Fabrinet Co., Ltd.		
Date Analysis Commenced	Dec 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, a lot of solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	95.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	226	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	344	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	70	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawut Athomprommarat นวตพรหมารัตน์ 3-323-0006

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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
นพตพรหมารัตน์ 3-323-0008

Approved by

Dej Changchon
Senior Manager
นพตพรหมารัตน์ 3-323-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133425
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176272-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
นพตพรหมารัตน์ 3-323-0008

Approved by

Dej Changchon
Senior Manager
นพตพรหมารัตน์ 3-323-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133431
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176283-1

Page 1 of 2

Sample Number	24133431-1						
Sample Date	Dec 09, 2024 10:20 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_002_2562	Plot	H.26 H.33	Site	Grand Tech International (Thailand) Co.,Ltd.		
Date Analysis Commenced	Dec 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	23.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	73	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	328	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athornprommarat รหัสประจำตัว >323-0-0006

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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-0-0028

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133431
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176283-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-0-0028

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133439
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176297-1

Page 1 of 2

Sample Number	24133439-1						
Sample Date	Dec 02, 2024 3:50 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_001_2563	Plot	G.45	Site	Henneway (Thailand) Co.,Ltd.		
Date Analysis Commenced	Dec 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and some turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	98.4	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	228	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	288	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	100	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun รหัสประจำตัว >323-0-0051

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-0-0028

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133439
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176297-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-0-0028

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133461
Date Received : Dec 02, 2024
Date Reported : Dec 02, 2024
Report Number : 3176397-1

Page 1 of 2

Sample Number	24133461-1						
Sample Date	Dec 02, 2024 2:15 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_006_2566	Plot	G.43	Site	INFORM-UMH (THAILAND) CO.,LTD.		
Date Analysis Commenced	Dec 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	158	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun วัฒณานนท์ 3-323-0051

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วัฒณานนท์ 3-323-00028

Approved by

Dej Changchon
Senior Manager
วัฒณานนท์ 3-323-00001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133461
Date Received : Dec 02, 2024
Date Reported : Dec 02, 2024
Report Number : 3176397-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วัฒณานนท์ 3-323-00028

Approved by

Dej Changchon
Senior Manager
วัฒณานนท์ 3-323-00001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133452
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176380-1

Page 1 of 2

Sample Number	24133452-1						
Sample Date	Dec 02, 2024 11:00 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_003_2565	Plot	G.29A, G.29B, G.29C	Site	Jalon (Thailand) Co.,Ltd.		
Date Analysis Commenced	Dec 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	17.4	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	75	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	248	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun วัฒณานนท์ 3-323-0051

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วัฒณานนท์ 3-323-00028

Approved by

Dej Changchon
Senior Manager
วัฒณานนท์ 3-323-00001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133452
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176380-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Photchanas Seeda
Scientist (4)
วัฒณานนท์ 3-323-00028

Approved by

Dej Changchon
Senior Manager
วัฒณานนท์ 3-323-00001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24135795

Date Received : Dec 02, 2024
Date Reported : Dec 09, 2024
Report Number : 3179902-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Sample Number 24135795-1
Sample Date Dec 02, 2024 11:10 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2567 Plot G.30A,G.30B,G.30 C,G.30D,G.31A,G.3 1B,G.31C Site Jalon (Thailand) Co.,Ltd.

Location โรงงานฟ2
Date Analysis Commenced Dec 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	138	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	307	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	197	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	193	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *		-	-	8.2	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ 7-323-4-0028

Approved by

D. Chongchon

Dej Chongchon
Senior Manager
โทรศัพท์ 7-323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24135795

Date Received : Dec 02, 2024
Date Reported : Dec 09, 2024
Report Number : 3179902-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Sample Number 24135795-1
Sample Date Dec 02, 2024 11:10 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2567 Plot G.30A,G.30B,G.30 C,G.30D,G.31A,G.3 1B,G.31C Site Jalon (Thailand) Co.,Ltd.

Location โรงงานฟ2
Date Analysis Commenced Dec 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.42	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	28.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	328	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103±05 degree C	mg/L	-	5	43	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun โทรศัพท์ 7-323-4-0051, Thanasoun Namakunna โทรศัพท์ 7-204-4-0101

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
โทรศัพท์ 7-323-4-0028

Approved by

D. Chongchon

Dej Chongchon
Senior Manager
โทรศัพท์ 7-323-4-0001

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24135795

Date Received : Dec 02, 2024
Date Reported : Dec 10, 2024
Report Number : 3179902-2

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Sample Number 24135795-1
Sample Date Dec 02, 2024 11:10 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2567 Plot G.30A,G.30B,G.30 C,G.30D,G.31A,G.3 1B,G.31C Site Jalon (Thailand) Co.,Ltd.

Location โรงงานฟ2
Date Analysis Commenced Dec 03, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.05	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.008	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.004	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.08	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Technical Management

Savitree N.

Savitree Nongsangam
Manager
โทรศัพท์ 7-204-4-0007

Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
โทรศัพท์ 7-204-4-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24135795

Date Received : Dec 02, 2024
Date Reported : Dec 10, 2024
Report Number : 3179902-2

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Sample Number 24135795-1
Sample Date Dec 02, 2024 11:10 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_008_2567 Plot G.30A,G.30B,G.30 C,G.30D,G.31A,G.3 1B,G.31C Site Jalon (Thailand) Co.,Ltd.

Location โรงงานฟ2
Date Analysis Commenced Dec 03, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.94	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun โทรศัพท์ 7-323-4-0051, Thanasoun Namakunna โทรศัพท์ 7-204-4-0101

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Savitree N.

Savitree Nongsangam
Manager
โทรศัพท์ 7-204-4-0007

Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
โทรศัพท์ 7-204-4-0004

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

Lot ID: 24135795
Date Received : Dec 02, 2024
Date Reported : Dec 10, 2024
Report Number : 3179902-3

Page 1 of 1

Sample Number	24135795-1					
Sampled Date	Dec 02, 2024 11:10 AM					
Sample Description	Wastewater					
Contract ID	L_WHA ESIE2_008_2567	Plot	G.30A,G.30B,G.30 C,G.30D,G.31A,G.31B,G.31C	Site	Jalon (Thailand) Co.,Ltd.	
Location	โรงงานฟ2					
Date Analysis Commenced	Dec 03, 2024					
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method
Metals Testing						
Iron	mg/L	0.003	0.005	0.70	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F
Water Testing						
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun , Thanassou Namakunna

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
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Approved by

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Savitree Noinangiam
Manager

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537-802 EMAIL: S:Support@Phatth_AIS_Gr (11-2240)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 24133448
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176376-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Approved by

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537-802 EMAIL: S:Support@AIS_Gr (4-52PM)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 24133448
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176376-1

Page 1 of 2

Sample Number	24133448-1					
Sampled Date	Dec 02, 2024 2:26 PM					
Sample Description	Wastewater					
Contract ID	L_WHA ESIE2_008_2564	Plot	G.62A,G.62B	Site	Jofo Nonwoven (Thailand) Co.,Ltd.	
Date Analysis Commenced	Dec 02, 2024					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)					
Physical Property	Yellow, a lot of odour, some solid and turbid					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	38.1	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G
COD	mg/L	1.5	25	91	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
Temperature *	Degree C	-	-	29.6	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	868	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun โทรศัพท์ +323-4-0051

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.
Photchanas Seeda
Scientist (4)
โทรศัพท์ +323-4-0028

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ +323-4-0001

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537-802 EMAIL: S:Support@AIS_Gr (4-52PM)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

Lot ID: 24133446
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176400-1

Page 1 of 2

Sample Number	24133446-1					
Sampled Date	Dec 02, 2024 11:35 AM					
Sample Description	Wastewater					
Contract ID	L_WHA ESIE2_001_2567	Plot	G.33A, G.33B, G.33C	Site	JOINHANDS INJECTION SYSTEM (THAILAND) COMPANY LIMITED	
Date Analysis Commenced	Dec 02, 2024					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)					
Physical Property	Yellow, a lot of odour, some solid and turbid					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	187	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G
COD	mg/L	1.5	25	426	≤400	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5220 D
Oil & Grease	mg/L	-	3	8	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)
Temperature *	Degree C	-	-	29.9	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	388	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	70	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun โทรศัพท์ +323-4-0051

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Technical Management

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Approved by

Dej Changchon
Senior Manager
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133464
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3179630-1

Page 2 of 2

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ : 323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ : 323-4-0001

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S:\Report\Hd\AL_GL-nt (4-18P)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133469
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3179630-1

Page 1 of 2

Sample Number 24133469-1
Sampled Date Dec 02, 2024 9:40 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2567 Plot G.18 Site Kingdean Electric (Thailand) Co.,Ltd.
Date Analysis Commenced Dec 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	8	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	5	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	8.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ : 323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ : 323-4-0001

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S:\Report\Hd\AL_GL-nt (4-18P)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133469
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3179630-1

Page 2 of 2

Sample Number 24133469-1
Sampled Date Dec 02, 2024 9:40 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2567 Plot G.18 Site Kingdean Electric (Thailand) Co.,Ltd.
Date Analysis Commenced Dec 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	<0.010	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	30.1	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	144	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun เบอร์โทรศัพท์ : 323-4-0051, Thanosun Namakunna เบอร์โทรศัพท์ : 204-4-0101

Remark :
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
เบอร์โทรศัพท์ : 323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เบอร์โทรศัพท์ : 323-4-0001

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S:\Report\Hd\AL_GL-nt (4-18P)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Random Check
Project Location : WHA ESIE 2

TESTING
No.0009
Lot ID: 24133469
Date Received : Dec 02, 2024
Date Reported : Dec 10, 2024
Report Number : 3179630-2

Page 1 of 2

Sample Number 24133469-1
Sampled Date Dec 02, 2024 9:40 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2567 Plot G.18 Site Kingdean Electric (Thailand) Co.,Ltd.
Date Analysis Commenced Dec 03, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid, and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.05	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.001	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.005	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok

Technical Management

Savitree N.

Savitree Nonsangam
Manager
เบอร์โทรศัพท์ : 204-4-0007

Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
เบอร์โทรศัพท์ : 204-4-0004

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S:\Report\Hd\AL_GL-nt (2-18P)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Lot ID: 24133469
Date Received : Dec 02, 2024
Date Reported : Dec 10, 2024
Report Number : 3179630-2

Page 2 of 2

Sample Number	24133469-1						
Sampled Date	Dec 02, 2024 9:40 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_006_2567	Plot	G.18	Site	Kingdean Electric (Thailand) Co.,Ltd.		
Date Analysis Commenced	Dec 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid, and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.0009	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.24	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun เปรมาต สัตยาคุณ รว 204-0-0051

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Technical Management *Savitree N.*
Savitree Nonsangam
Manager
โทรศัพท์ 204-0-0007

Approved by *Kan Korn Anek*
Kan Korn Anek
Assistant General Manager
โทรศัพท์ 204-0-0004

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Random Check
Project Location : WHA ESIE 2

Lot ID: 24133469
Date Received : Dec 02, 2024
Date Reported : Dec 10, 2024
Report Number : 3179630-3

Page 1 of 1

Sample Number	24133469-1						
Sampled Date	Dec 02, 2024 9:40 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_006_2567	Plot	G.18	Site	Kingdean Electric (Thailand) Co.,Ltd.		
Date Analysis Commenced	Dec 03, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Physical Property	Yellow, some odour, solid, and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.13	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.4	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun , Thanassou Namakunna

Remark :
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Approved by *Savitree N.*
Savitree Nonsangam
Manager

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

Lot ID: 24133465
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176402-1

Page 1 of 2

Sample Number	24133465-1						
Sampled Date	Dec 02, 2024 3:10 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_002_2567	Plot	G.22	Site	LEADING WHEEL CO.,LTD.		
Date Analysis Commenced	Dec 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	197	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	676	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	10	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1452	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	42	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun เปรมาต สัตยาคุณ รว 323-0-0051

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management *Photchanas S.*
Photchanas Seeds
Scientist (4)
โทรศัพท์ 323-0-0028

Approved by *Dej Changchon*
Dej Changchon
Senior Manager
โทรศัพท์ 323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory / Monthly
Project Location : WHA ESIE 2

Lot ID: 24133465
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176402-1

Page 2 of 2

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun เปรมาต สัตยาคุณ รว 323-0-0051

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management *Photchanas S.*
Photchanas Seeds
Scientist (4)
โทรศัพท์ 323-0-0028

Approved by *Dej Changchon*
Dej Changchon
Senior Manager
โทรศัพท์ 323-0-0001

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133441
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176368-1

Page 1 of 2

Sample Number	24133441-1						
Sample Date	Dec 09, 2024 9:55 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_001_2564	Plot	G.51	Site	Linak Apac Co.,Ltd.		
Date Analysis Commenced	Dec 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	6.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.1	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	284	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	67	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chainusorn Lertnathakunchai เชนนธอรณ เลรัตนถกนุชไ >323-4-0041

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เชนนธอรณ >323-4-0028

Approved by

Dej Changchon
Senior Manager
เดจ ชางชน >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133441
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176368-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เชนนธอรณ >323-4-0028

Approved by

Dej Changchon
Senior Manager
เดจ ชางชน >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133447
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176375-1

Page 1 of 2

Sample Number	24133447-1						
Sample Date	Dec 02, 2024 9:55 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_007_2564	Plot	G.16	Site	Luobang Kitchen&Bath (Thailand) Co.,Ltd.		
Date Analysis Commenced	Dec 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	25.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	57	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	8.0	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	348	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun เชนนธอรณ >323-4-0051

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เชนนธอรณ >323-4-0028

Approved by

Dej Changchon
Senior Manager
เดจ ชางชน >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133447
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176375-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
เชนนธอรณ >323-4-0028

Approved by

Dej Changchon
Senior Manager
เดจ ชางชน >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133440
Date Received : Dec 02, 2024
Date Reported : Dec 02, 2024
Report Number : 3176367-1

Page 1 of 2

Sample Number	24133440-1						
Sample Date	Dec 02, 2024 3:30 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_002_2563	Plot	G.20	Site	OCEANCASH (THAILAND) Co.,Ltd.		
Date Analysis Commenced	Dec 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and a lot of turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	63.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	157	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	400	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	40	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun วิเศษแสน 3-323-0001

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วิเศษแสน 3-323-0-0028

Approved by

Dej Changchon
Senior Manager
วิเศษแสน 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133440
Date Received : Dec 02, 2024
Date Reported : Dec 02, 2024
Report Number : 3176367-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วิเศษแสน 3-323-0-0028

Approved by

Dej Changchon
Senior Manager
วิเศษแสน 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133451
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176379-1

Page 1 of 2

Sample Number	24133451-1						
Sample Date	Dec 09, 2024 10:00 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_002_2565	Plot	I.2A	Site	Primax Electronics (Thailand) Co., Ltd.		
Date Analysis Commenced	Dec 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	149	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	530	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	8.0	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	27.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	284	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	160	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Suphanat Sakul วิเศษแสน 3-323-0-0021

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วิเศษแสน 3-323-0-0028

Approved by

Dej Changchon
Senior Manager
วิเศษแสน 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133451
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176379-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
วิเศษแสน 3-323-0-0028

Approved by

Dej Changchon
Senior Manager
วิเศษแสน 3-323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133446
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176374-1

Page 1 of 2

Sample Number	24133446-1						
Sample Date	Dec 09, 2024 10:30 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_006_2564	Plot	H-30	Site	Prussia (Asia) Co.,Ltd.		
Date Analysis Commenced	Dec 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	22.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	87	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	27.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	396	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawut Athomprommarat นวตวุฒิ อธอมพรมารัต ๓-323-๓-0006

Remark :
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
นพตชนาส เสิดา ๓-323-๓-0028

Approved by

Dej Changchon
Senior Manager
เดจ ช้างชน ๓-323-๓-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133446
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176374-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
นพตชนาส เสิดา ๓-323-๓-0028

Approved by

Dej Changchon
Senior Manager
เดจ ช้างชน ๓-323-๓-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133426
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176273-1

Page 1 of 2

Sample Number	24133426-1						
Sample Date	Dec 09, 2024 2:15 PM						
Sample Description	Wastewater						
Contract ID	L_HESIE2_002_2560	Plot	H.8	Site	SAIC MOTOR-CP CO.,LTD.		
Date Analysis Commenced	Dec 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	15.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	52	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	536	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	36	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawut Athomprommarat นวตวุฒิ อธอมพรมารัต ๓-323-๓-0006

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
นพตชนาส เสิดา ๓-323-๓-0028

Approved by

Dej Changchon
Senior Manager
เดจ ช้างชน ๓-323-๓-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133426
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176273-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
นพตชนาส เสิดา ๓-323-๓-0028

Approved by

Dej Changchon
Senior Manager
เดจ ช้างชน ๓-323-๓-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24133466

Date Received : Dec 09, 2024

Date Reported : Dec 16, 2024

Report Number : 3179620-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Random Check

Project Location : WHA ESIE 2

Sample Number 24133466-1
Sampled Date Dec 09, 2024 1:35 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_003_2567
Date Analysis Commenced Dec 09, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	124	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	258	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	138	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	134	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Waterwater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
โทรศัพท์ 3-323-4-0031

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24133466

Date Received : Dec 09, 2024

Date Reported : Dec 16, 2024

Report Number : 3179620-1

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Random Check

Project Location : WHA ESIE 2

Sample Number 24133466-1
Sampled Date Dec 09, 2024 1:35 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_003_2567
Date Analysis Commenced Dec 09, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.12	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5510 D	Rayong
Temperature *	Degree C	-	-	31.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	416	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	45	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athomprommarat โทรศัพท์ 3-323-4-0006, Thanassou Namakunna โทรศัพท์ 3-204-4-0101

Remark :

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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chontichak
Chonticha Subongkroh
Scientist (3)
โทรศัพท์ 3-323-4-0031

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ 3-323-4-0001

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24133466

Date Received : Dec 09, 2024

Date Reported : Dec 16, 2024

Report Number : 3179620-2

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Random Check

Project Location : WHA ESIE 2

Sample Number 24133466-1
Sampled Date Dec 09, 2024 1:35 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_003_2567
Date Analysis Commenced Dec 10, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.04	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	<0.0005	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.008	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-C B	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Technical Management

Savitree N
Savitree Noisangam
Manager
โทรศัพท์ 3-204-4-0007

Approved by

Kanokorn Anek
Assistant General Manager
โทรศัพท์ 3-204-4-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24133466

Date Received : Dec 09, 2024

Date Reported : Dec 16, 2024

Report Number : 3179620-2

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O :
Project Name : Factory | Random Check

Project Location : WHA ESIE 2

Sample Number 24133466-1
Sampled Date Dec 09, 2024 1:35 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_003_2567
Date Analysis Commenced Dec 10, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	0.0009	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athomprommarat โทรศัพท์ 3-323-4-0006, Thanassou Namakunna โทรศัพท์ 3-204-4-0101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Savitree N
Savitree Noisangam
Manager
โทรศัพท์ 3-204-4-0007

Approved by

Kanokorn Anek
Assistant General Manager
โทรศัพท์ 3-204-4-0004

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

TESTING
No.0009
Lot ID: 24133466
Date Received : Dec 09, 2024
Date Reported : Dec 16, 2024
Report Number : 3179620-3

Page 1 of 1

Sample Number 24133466-1
Sample Date Dec 09, 2024 1:35 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_003_2567 Plot H.16 Site SAKURA PRINTING TECHNOLOGY COMPANY LIMITED
Date Analysis Commenced Dec 10, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.22	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3039 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Nattawut Athomprommarat , Thanasoun Namakunna

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Approved by

Chanatt L.
Chanattagarn Inthum
Section Head

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133442
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176369-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
หมายเลขโทรศัพท์ >323-0-0028

Approved by

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133442
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176369-1

Page 1 of 2

Sample Number 24133442-1
Sample Date Dec 09, 2024 9:45 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_002_2564 Plot H.36 Site San Ho Precision Industrial Co.,Ltd.
Date Analysis Commenced Dec 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, a lot of solid and some turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	11.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	62	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	220	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	31	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Nattawut Athomprommarat หมายเลขโทรศัพท์ >323-0-0006

Remark :
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Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
หมายเลขโทรศัพท์ >323-0-0028

Approved by

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ >323-0-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133444
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176371-1

Page 1 of 2

Sample Number 24133444-1
Sample Date Dec 09, 2024 9:50 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_003_2564 Plot G.53 Site Sanko Plastics (Thailand) Co.,Ltd.
Date Analysis Commenced Dec 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	36.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	142	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	384	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	27	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Chainusorn Lertnathakunchai หมายเลขโทรศัพท์ >323-0-0041

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Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
หมายเลขโทรศัพท์ >323-0-0028

Approved by

Dej Changchon
Senior Manager
หมายเลขโทรศัพท์ >323-0-0001

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Life Sciences www.alsglobal.com
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133444
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176372-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
เบญจมาศพร วัชรานนท์ 3-323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
เบญจมาศพร วัชรานนท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133435
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176289-1

Page 1 of 2

Sample Number 24133435-1
Sampled Date Dec 09, 2024 10:05 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2562 Plot H-35 Site SEAH GLOBAL (THAILAND) CO.,LTD.
Date Analysis Commenced Dec 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	394	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	848	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.8	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	27.9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	776	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	264	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Nattawat Athompronnarat เบญจมาศพร วัชรานนท์ 3-323-4-0006

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
เบญจมาศพร วัชรานนท์ 3-323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
เบญจมาศพร วัชรานนท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133435
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176289-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
เบญจมาศพร วัชรานนท์ 3-323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
เบญจมาศพร วัชรานนท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133449
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176377-1

Page 1 of 2

Sample Number 24133449-1
Sampled Date Dec 02, 2024 10:10 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_009_2564 Plot G.17,G.15,G.12A Site SEITEK INTERNATIONAL (THAILAND) CO.,LTD.
Date Analysis Commenced Dec 02, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	164	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun เบญจมาศพร วัชรานนท์ 3-323-4-0051

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
เบญจมาศพร วัชรานนท์ 3-323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
เบญจมาศพร วัชรานนท์ 3-323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133449
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176377-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 323-4-0028

Approved by

D. Chongchon

Dej Changchon
Senior Manager
หมายเลขประจำตัว 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133428
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176277-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 323-4-0028

Approved by

D. Chongchon

Dej Changchon
Senior Manager
หมายเลขประจำตัว 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133428
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176277-1

Page 1 of 2

Sample Number 24133428-1
Sampled Date Dec 02, 2024 10:45 AM
Sample Description Wastewater
Contract ID L_HESIE2_002_2561 Plot G.28 Site SGF (THAILAND) CO.,LTD.
Date Analysis Commenced Dec 02, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	42.7	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	123	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	8.0	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	448	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	27	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun หมายเลขประจำตัว 323-4-0051

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 323-4-0028

Approved by

D. Chongchon

Dej Changchon
Senior Manager
หมายเลขประจำตัว 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133436
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176292-1

Page 1 of 2

Sample Number 24133436-1
Sampled Date Dec 09, 2024 10:20 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2562 Plot I-3,I-38 Site SIAM YAMATO STEEL COMPANY LIMITED.
Date Analysis Commenced Dec 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	5.9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	31	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	300	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Suphanat Sakul หมายเลขประจำตัว 323-4-0021

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว 323-4-0028

Approved by

D. Chongchon

Dej Changchon
Senior Manager
หมายเลขประจำตัว 323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133436
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176292-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลข 3-323-0-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลข 3-323-0-0001

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5309901_RL_GL-01 (3-3249)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133455
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176384-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลข 3-323-0-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลข 3-323-0-0001

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5307-88 DMSL

5309901_RL_GL-01 (4-5299)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133455
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176384-1

Page 1 of 2

Sample Number 24133455-1
Sampled Date Dec 02, 2024 2:35 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2565 Plot G.11 Site SIGNODE (Thailand) LTD.
Date Analysis Commenced Dec 02, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	17.6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	52	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	444	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun หมายเลข 3-323-0-0051

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลข 3-323-0-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลข 3-323-0-0001

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5309901_RL_GL-01 (4-5299)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133434
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176288-1

Page 1 of 2

Sample Number 24133434-1
Sampled Date Dec 02, 2024 2:43 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_004_2562 Plot G.12 Site Surface Treatment Technology (Thailand) Co., Ltd.
Date Analysis Commenced Dec 02, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	51.8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	123	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	476	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	38	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun หมายเลข 3-323-0-0051

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลข 3-323-0-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลข 3-323-0-0001

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5309901_RL_GL-01 (4-5299)



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133434
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3176288-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133429
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176279-1

Page 1 of 2

Sample Number 24133429-1
Sampled Date Dec 09, 2024 9:25 AM
Sample Description Wastewater
Contract ID L_HESIE2_003_2561 Plot G.3, G4, G.5 Site Toagosei (Thailand) Co.,Ltd
Date Analysis Commenced Dec 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	5.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	38	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.0	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	35.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	172	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Chaiyusorn Lertnathakunchai หมายเลขประจำตัว >323-4-0041

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133429
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176279-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133450
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176378-1

Page 1 of 2

Sample Number 24133450-1
Sampled Date Dec 09, 2024 10:14 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2565 Plot 1.28 Site Tympany Acoustic Technology (Thailand) Co.,Ltd.
Date Analysis Commenced Dec 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, a lot of odour, some solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	29.3	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	83	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.6	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	304	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	29	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Suphanat Sakulk หมายเลขประจำตัว >323-4-0021

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khun

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133450
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176378-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133454
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176382-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
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P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133454
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176382-1

Page 1 of 2

Sample Number 24133454-1
Sampled Date Dec 09, 2024 11:00 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2565 Plot H.14 Site TYN0 HOME (THAILAND) CO.,LTD
Date Analysis Commenced Dec 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	40.1	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	137	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.9	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	276	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	26	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athonprommarat หมายเลขประจำตัว >323-4-0006

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133430
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176281-1

Page 1 of 2

Sample Number 24133430-1
Sampled Date Dec 09, 2024 9:35 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_001_2562 Plot H.34 Site Wanda New Material (Thailand) Co.,Ltd.
Date Analysis Commenced Dec 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	32.8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	146	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.5	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	396	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	47	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawat Athonprommarat หมายเลขประจำตัว >323-4-0006

Remark :
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Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

D. Khunwong

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133430
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176281-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133437
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176294-1

Page 1 of 2

Sample Number 24133437-1
Sampled Date Dec 09, 2024 2:50 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_007_2562 Plot H.23.H.23A Site Xingda Steel Cord (Thailand) Ltd.
Date Analysis Commenced Dec 09, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	6.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	62	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *		-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	768	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Nattawat Athomprommarat หมายเลขประจำตัว >323-4-0006

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133437
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176294-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Random Check
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133468
Date Received : Dec 02, 2024
Date Reported : Dec 07, 2024
Report Number : 3179629-1

Page 1 of 2

Sample Number 24133468-1
Sampled Date Dec 02, 2024 2:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2567 Plot G.36A,G.36B,G.36C,G.36D,G.37A,G.37B Site YASUN ABRASIVES (THAILAND) CO., LTD.
Location อากาศ
Date Analysis Commenced Dec 02, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, some solid, and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	91.7	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	289	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	257	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	253	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *		-	-	8.4	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
หมายเลขประจำตัว >323-4-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
หมายเลขประจำตัว >323-4-0001

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Analysis / Test Report

TESTING

No.0042

Lot ID: 24133468

Date Received : Dec 02, 2024

Date Reported : Dec 07, 2024

Report Number : 3179629-1

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory / Random Check

Project Location : WHA ESIE 2

Sample Number 24133468-1
Sampled Date Dec 02, 2024 2:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2567 Plot G.36A,G.36B,G.36 C,G.36D,G.37A,G.3 7B Site YASUN ABRASIVES (THAILAND) CO., LTD.

Location อลาหาร

Date Analysis Commenced Dec 02, 2024

Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Physical Property Yellow, a lot of odour, some solid, and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.21	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Temperature *	Degree C	-	-	31.1	≤40	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	348	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	79	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun รหัสประจำตัว >323-0-0051, Thanassun Namakunna รหัสประจำตัว >204-0-0101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
รหัสประจำตัว >323-0-0028

Approved by

Dej Changchon

Senior Manager
รหัสประจำตัว >323-0-0001

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24133468

Date Received : Dec 02, 2024

Date Reported : Dec 10, 2024

Report Number : 3179629-2

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory / Random Check

Project Location : WHA ESIE 2

Sample Number 24133468-1
Sampled Date Dec 02, 2024 2:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2567 Plot G.36A,G.36B,G.36 C,G.36D,G.37A,G.3 7B Site YASUN ABRASIVES (THAILAND) CO., LTD.

Location อลาหาร

Date Analysis Commenced Dec 03, 2024

Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Physical Property Yellow, a lot of odour, some solid, and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.003	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.06	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.02	≤2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.09	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Technical Management

Savitree N.

Savitree Nonsangam
Manager
รหัสประจำตัว >204-0-0007

Approved by

Kanokkorn Anek

Assistant General Manager
รหัสประจำตัว >204-0-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24133468

Date Received : Dec 02, 2024

Date Reported : Dec 10, 2024

Report Number : 3179629-2

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory / Random Check

Project Location : WHA ESIE 2

Sample Number 24133468-1
Sampled Date Dec 02, 2024 2:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2567 Plot G.36A,G.36B,G.36 C,G.36D,G.37A,G.3 7B Site YASUN ABRASIVES (THAILAND) CO., LTD.

Location อลาหาร

Date Analysis Commenced Dec 03, 2024

Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Physical Property Yellow, a lot of odour, some solid, and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.009	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	0.0008	≤0.02	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.26	≤5.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun รหัสประจำตัว >323-0-0051, Thanassun Namakunna รหัสประจำตัว >204-0-0101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Savitree N.

Savitree Nonsangam
Manager
รหัสประจำตัว >204-0-0007

Approved by

Kanokkorn Anek

Assistant General Manager
รหัสประจำตัว >204-0-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24133468

Date Received : Dec 02, 2024

Date Reported : Dec 10, 2024

Report Number : 3179629-3

Client : WHA Utilities and Power Public Company Limited

475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220

P/O : Project Name : Factory / Random Check

Project Location : WHA ESIE 2

Sample Number 24133468-1
Sampled Date Dec 02, 2024 2:00 PM
Sample Description Wastewater
Contract ID L_WHA ESIE2_005_2567 Plot G.36A,G.36B,G.36 C,G.36D,G.37A,G.3 7B Site YASUN ABRASIVES (THAILAND) CO., LTD.

Location อลาหาร

Date Analysis Commenced Dec 03, 2024

Condition of Sample Contained in two glass vials, one amber glass bottle and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Physical Property Yellow, a lot of odour, some solid, and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.52	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Paramet Sattayakun , Thanassun Namakunna

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133467
Date Received : Dec 02, 2024
Date Reported : Dec 09, 2024
Report Number : 3176406-1

Page 1 of 2

Sample Number	24133467-1						
Sample Date	Dec 02, 2024 1:45 PM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_004_2567	Plot	G.34A/G.35A,G.35	Site	YASUN ABRASIVES (THAILAND) CO.,LTD.		
Date Analysis Commenced	Dec 02, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, a lot of odour, some solid and turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	87.5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	182	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.7	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	340	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	25	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Paramet Sattayakun รับผิดชอบ 323-0001

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รับผิดชอบ 323-00028

Approved by

Dej Changchon
Senior Manager
รับผิดชอบ 323-00001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133467
Date Received : Dec 02, 2024
Date Reported : Dec 09, 2024
Report Number : 3176406-1

Page 2 of 2

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.							
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Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รับผิดชอบ 323-00028

Approved by

Dej Changchon
Senior Manager
รับผิดชอบ 323-00001

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133422
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176383-1

Page 1 of 2

Sample Number	24133422-1						
Sample Date	Dec 09, 2024 11:40 AM						
Sample Description	Wastewater						
Contract ID	L_WHA ESIE2_006_2565	Plot	H.22	Site	Yinlei Electric (Thailand) Co.,Ltd		
Date Analysis Commenced	Dec 09, 2024						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)						
Physical Property	Yellow, some odour, solid and no turbid						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	5.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	34	≤400	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH (on site) *	-	-	-	7.0	6.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	540	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.
Sampling By : Nattawut Athornprommarat รับผิดชอบ 323-0006 , Thanasoun Namakunna รับผิดชอบ 204-0101

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รับผิดชอบ 323-00028

Approved by

Dej Changchon
Senior Manager
รับผิดชอบ 323-00001

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory | Monthly
Project Location : WHA ESIE 2

TESTING
No.0042
Lot ID: 24133422
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176383-1

Page 2 of 2

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.							
------------------------------------------------------------------------------------------------	--	--	--	--	--	--	--

Technical Management

Photchanas.
Photchanas Seeda
Scientist (4)
รับผิดชอบ 323-00028

Approved by

Dej Changchon
Senior Manager
รับผิดชอบ 323-00001

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
475/3 Moo 7, Tumbol Klong Kiew, Amphur Ban Bueng, Chonburi Thailand 20220
P/O :
Project Name : Factory I Monthly
Project Location : WHA ESIE 2

TESTING
No.0009
Lot ID: 24133422
Date Received : Dec 09, 2024
Date Reported : Dec 14, 2024
Report Number : 3176363-2

Page 1 of 1

Sample Number 24133422-1
Sampled Date Dec 09, 2024 11:40 AM
Sample Description Wastewater
Contract ID L_WHA ESIE2_006_2565 Plot H.22 Site Yinlei Electric (Thailand) Co.,Ltd
Date Analysis Commenced Dec 10, 2024
Condition of Sample Contained in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)
Physical Property Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Chromium	mg/L	0.0003	0.0005	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	14.8	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : Amendment details report of Environmental Impact Assessment Report of WHA Eastern Seaboard Industrial Estate 2.

Sampling By : Nattawut Athomprommarat รหัสประจำตัว 3-323-0-0006 , Thanasoun Namakunna รหัสประจำตัว 3-204-0-0101

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management


Chanattagorn Inchom
Section Head
รหัสประจำตัว 3-204-0-0008

Approved by


Kanokorn Anek
Assistant General Manager
รหัสประจำตัว 3-204-0-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
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6.4896 55.851161616161616

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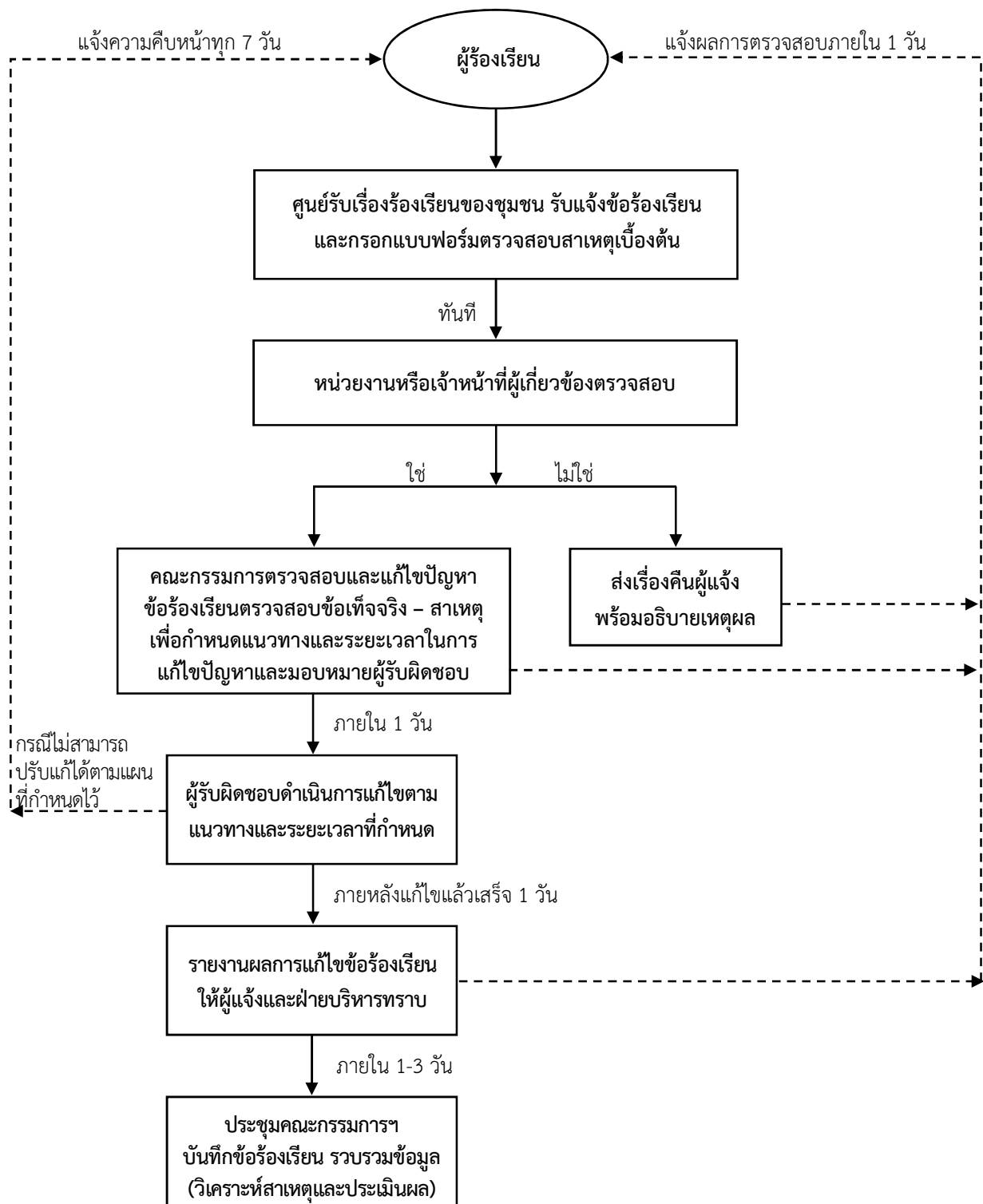
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5307-001 (ENGL)

S:\Report\006061_01_GA-01 (1-3089)

ภาคผนวก ข-7

เอกสารขั้นตอนการรับเรื่องร้องเรียน ภายใต้ระบบมาตรฐานสิ่งแวดล้อม ISO14001



ที่มา : บริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลลอปเม้นท์ จำกัด (มหาชน), 2567

รูปที่ 2 ขั้นตอนการรับเรื่องร้องเรียน




เอกสารควบคุม

เรื่อง

ระเบียบการปฏิบัติงานการจัดการเรื่องร้องเรียนจากลูกค้าและชุมชน

(Customer and Public Complain Procedure)

HO	WHA CIE 1	WHA CIE 2	WHA EIE	ESIE	WHA ESIE 1	WHA ESIE 2	WHA ESIE 4	WHA LP 1	WHA LP 4	WHA SIL	WHA RIL
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

เขียนโดย	<div style="text-align: center;">  ตำแหน่ง EMG วันที่ 4 ส.ค. 2562 </div>
ตรวจสอบโดย	<div style="text-align: center;">  ตำแหน่ง QEMR วันที่ 4 ส.ค. 2562 </div>
อนุญาตให้ใช้โดย	<div style="text-align: center;">  ตำแหน่ง VP วันที่ 8 ส.ค. 2562 </div>

วันที่แจกจ่าย

วันที่มีผลบังคับใช้ 21 ส.ค. 2562

ตารางการแจกจ่ายเอกสารควบคุม

การแจกจ่ายโดยใช้ระบบ Electronic File

รหัสฝ่าย/แผนก	รหัสบุคคล
ASD	HRD
ITD	PRO
CMD	LCD
IED	BCD
LBD	IEO
LBM	BOP
ACD	
LGD	
FND	

การแจกจ่ายโดยใช้สำเนา

รหัสสำเนา	สถานที่จัดเก็บ	รหัสสำเนา	สถานที่จัดเก็บ
OMW-ESIE	ESIE	OMW-WHA EIE	WHA EIE
OMF-ESIE	ESIE	OMF-WHA EIE	WHA EIE
OMG-ESIE	ESIE	CFS-WHA EIE	WHA EIE
SCI-ESIE	ESIE	OMW-WHA CIE 1	WHA CIE 1
SCB-ESIE	ESIE	OMF- WHA CIE 1	WHA CIE 1
OMW-WHA ESIE 1	WHA ESIE 1	CFS- WHA CIE 1	WHA CIE 1
OMF- WHA ESIE 1	WHA ESIE 1	OMW-WHA SIL	WHA SIL
CFS- WHA ESIE 1	WHA ESIE 1	OMF-WHA SIL	WHA SIL
OMW- WHA ESIE 2	WHA ESIE 2	CFS-WHA SIL	WHA SIL
OMF- WHA ESIE 2	WHA ESIE 2	OMW-WHA RIL	WHA RIL
CFS- WHA ESIE 2	WHA ESIE 2	OMF-WHA RIL	WHA RIL
OMW- WHA ESIE 4	WHA ESIE 4	CFS-WHA RIL	WHA RIL
OMF- WHA ESIE 4	WHA ESIE 4		
CFS- WHA ESIE 4	WHA ESIE 4		

ตารางการปรับปรุงเอกสารควบคุม

ครั้งที่	วันที่มีผลบังคับใช้	หน้า	หัวข้อที่ปรับปรุง
2	20/07/49	1	แก้ไขตารางสถานที่ที่ใช้เอกสาร
		1	แก้ไขชื่อผู้ตรวจสอบ
		2	แก้ไขตารางการแจกจ่าย
		5	แก้ไขขอบเขต
		7	แก้ไขแบบฟอร์ม EO-P-004F1
		8	ยกเลิกแบบฟอร์ม EO-P-004F-3
3	15/07/52	2	เพิ่มสำเนาให้ OMW-H-ESIE
		5	แก้ไขข้อ 2. ขอบเขต
4	02/02/55	1	แก้ไขชื่อผู้เขียน
		2	แก้ไขรหัสแจกจ่ายเอกสารแบบ Electronic File
		5	เพิ่มขอบเขตการทำงาน บริษัท อีสเทิร์น ไฟฟ้าไลน์ เซอร์วิสเซส จำกัด
		5	แก้ไข Version ISO9001:2000 เป็น ISO9001:2008
5		5	แก้ไขขอบเขตการปฏิบัติงาน
6		ทุกหน้า	เปลี่ยน Logo, เปลี่ยนชื่อระบบเป็น Quality and Environmental Management System
		1	แก้ไขตารางแสดงสถานที่
		2	ตารางการแจกจ่าย
		5	แก้ไขขอบเขต
		8	แก้ไขแบบฟอร์ม EO-P-004-F1
		9	แก้ไขแบบฟอร์ม EO-P-004-F2
7		ทุกหน้า	เปลี่ยน logo , รหัสเอกสาร, ตารางการแจกจ่าย
8	8/03/61	5-10	แก้ไขขอบเขต, ข้อ 5, 6, 7
9		ทุกหน้า	แก้ไขชื่อบริษัทและแก้ไขแบบฟอร์ม

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ระเบียบการปฏิบัติงานการจัดการเรื่องร้องเรียนจากลูกค้าและชุมชน**(Customer and Public Complain Procedure)**

1. วัตถุประสงค์ ใช้เป็นแนวทางในการจัดการเรื่องร้องเรียนที่ได้รับจากลูกค้าและชุมชน ซึ่งเป็นข้อร้องเรียนที่เกี่ยวข้องกับระบบการจัดการด้านคุณภาพ และระบบการจัดการด้านสิ่งแวดล้อม เพื่อให้สามารถจัดการแก้ไขกับเรื่องร้องเรียนที่เกิดขึ้นได้อย่างเหมาะสม

2. ขอบเขต ระเบียบการปฏิบัติงานนี้ ใช้ในขอบเขตของบริษัท ดับบลิวเอชเอ อินดัสเตรียล ดิเวลลอปเม้นท์ จำกัด (มหาชน) บริษัท ดับบลิวเอชเอ ยูทิลิตี้ แอนด์ พาวเวอร์ จำกัด (มหาชน) และบริษัทในเครือได้แก่ บริษัท อีสเทิร์นชีปอร์คอินดัสเตรียลเอสเตท (ระยอง) จำกัด, บริษัท ดับบลิวเอชเอ อีสเทิร์นอินดัสเตรียลเอสเตท จำกัด, บริษัท ดับบลิวเอชเอ อีสเทิร์นชีปอร์คอินดัสเตรียลเอสเตท จำกัด, บริษัท ดับบลิวเอชเอ วอเตอร์ จำกัด, บริษัท ดับบลิวเอชเอ อีสเทิร์น ไฟฟ์ไลน์ เซอร์วิส จำกัด, บริษัท ดับบลิวเอชเอ อินดัสเตรียล บิวคิง จำกัด, บริษัท ดับบลิวเอชเอ สระบุรี ที่ดินอุตสาหกรรม จำกัด และบริษัท ดับบลิวเอชเอ ระยองที่ดินอุตสาหกรรม จำกัด โดยครอบคลุมสถานต่างๆ ดังนี้

1. นิคมอุตสาหกรรมดับบลิวเอชเอ ชลบุรี 1
2. นิคมอุตสาหกรรมดับบลิวเอชเอ ชลบุรี 2
3. นิคมอุตสาหกรรมดับบลิวเอชเอ ตะวันออก (มาบตาพุด)
4. นิคมอุตสาหกรรมอีสเทิร์นชีปอร์ค (ระยอง)
5. นิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นชีปอร์ค 1
6. นิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นชีปอร์ค 2
7. นิคมอุตสาหกรรมดับบลิวเอชเอ อีสเทิร์นชีปอร์ค 4
8. โครงการดับบลิวเอชเอ โลจิสติกส์ปาร์ค 1, 4
9. เขตประกอบการอุตสาหกรรมดับบลิวเอชเอสระบุรี
10. เขตประกอบการอุตสาหกรรมดับบลิวเอชเอระยอง

3. คำจำกัดความ

เรื่องร้องเรียน หมายถึง ปัญหาหรือข้อบกพร่องด้านคุณภาพและสิ่งแวดล้อมที่ได้รับแจ้งจากพนักงาน ลูกค้า หรือบุคคลภายนอกที่ได้รับทราบหรือได้รับผลกระทบจากปัญหานั้นๆ ซึ่งเป็นปัญหาหรือข้อบกพร่องที่เกี่ยวข้องกับกิจกรรม ผลิตภัณฑ์ หรือการบริการของบริษัท

4. เอกสารอ้างอิง

4.1 มาตรฐานระบบการจัดการคุณภาพ ISO 9001:2015 ข้อ 8.2.1

4.2 มาตรฐานระบบการจัดการด้านสิ่งแวดล้อม ISO 14001:2015 ข้อ 8.2.1

5. ระเบียบการปฏิบัติงาน

5.1 ให้พนักงานทุกคนในบริษัท ที่ได้รับแจ้งปัญหาหรือข้อบกพร่องที่เกี่ยวกับกิจกรรมผลิตภัณฑ์และบริการของบริษัท/นิคมอุตสาหกรรม/เขตประกอบการอุตสาหกรรม หากพิจารณาในเบื้องต้นแล้วเห็นว่าเป็นเรื่องร้องเรียนจากลูกค้า ให้บันทึกในส่วนที่ 1 ของใบรับเรื่องร้องเรียน (WHA-P-004-F1)

5.2 ให้ Manager/Director ฝ่ายที่เกี่ยวข้อง กำหนดผู้รับผิดชอบการแก้ไข ลงในส่วนที่ 2 ของใบรับเรื่องร้องเรียน (WHA-P-004-F1)

5.3 ผู้รับผิดชอบพิจารณาว่าเป็นเรื่องร้องเรียนและมีมูลความจริงหรือไม่

5.3.1 หากพิจารณาแล้วไม่ถือเป็นร้องเรียน หรือไม่มีมูลความจริง ให้ชี้แจงเหตุผลให้กับผู้ร้องเรียนทราบ (ถ้าติดต่อได้) และส่งใบรับเรื่องร้องเรียน (WHA-P-004-F1) ให้ QEMR เพื่อรับทราบ และส่งให้ OMA ตามสถานที่เกิดเรื่องร้องเรียน เพื่อจัดเก็บใบรับเรื่องร้องเรียนนั้นไว้ที่ CFS

5.3.2 หากพิจารณาแล้วเห็นว่าเป็นเรื่องร้องเรียนและมีมูลความจริง ให้ผู้รับผิดชอบติดต่อไปยังผู้ร้องเรียนเพื่อให้ทราบถึงแนวทางการแก้ไข และกำหนดวิธีการแก้ไข และวันที่แล้วเสร็จ ลงในส่วนที่ 3 ของใบรับเรื่องร้องเรียน (WHA-P-004-F1) และให้ OMA ตามสถานที่เกิดเรื่องร้องเรียนลงบันทึกเลขที่ วันที่รับเรื่อง รายละเอียด ผู้ร้องเรียนและผู้รับผิดชอบในทะเบียนเรื่องร้องเรียน (WHA-P-004-F2)

5.3.3 หากพิจารณาแล้วเป็นเรื่องร้องเรียนซึ่งอาจส่งผลกระทบต่อสิ่งแวดล้อมและชุมชนโดยรอบ หรือต้องมีการปรับปรุงแก้ไขการประกอบกิจการโรงงาน ให้ผู้รับผิดชอบรายงานเรื่องร้องเรียนต่อ กนอ./หน่วยราชการที่เกี่ยวข้อง เพื่อรับทราบและเข้าร่วมกระบวนการจัดการเรื่องร้องเรียนด้วย

5.4 ให้ผู้รับผิดชอบดำเนินการหรือติดตามการแก้ไขเรื่องร้องเรียนตามวิธีการและระยะเวลาที่กำหนดไว้ เมื่อดำเนินการแล้วเสร็จ ให้บันทึกผลการแก้ไข และวันที่แล้วเสร็จลงในส่วนที่ 3 ของใบรับเรื่องร้องเรียน (WHA-P-004-F1) พร้อมทั้งแจ้งผลการแก้ไขให้ผู้ร้องเรียน รวมถึงบันทึกช่องทางการแจ้งกลับด้วย (ถ้าติดต่อได้) และ ส่งให้ Manager/Director ฝ่ายทราบ

5.5 ให้ Manager/Director ฝ่าย รับทราบผลการแก้ไข และปิดใบรับเรื่องร้องเรียน ในส่วนที่ 4 ของใบรับเรื่องร้องเรียน (WHA-P-004-F1) และส่งให้ QEMR

5.6 ให้ QEMR รับทราบการปิดใบรับเรื่องร้องเรียนในส่วนที่ 5

5.7 ให้ EMG ลงบันทึกสาเหตุของเรื่องร้องเรียน แนวทางการแก้ไข กำหนดเวลาแล้วเสร็จ และวันที่ดำเนินการแล้วเสร็จ ในทะเบียนเรื่องร้องเรียน (WHA-P-004-F2) จัดส่งให้ OMA ตามสถานที่เกิดเรื่องร้องเรียน เพื่อจัดเก็บไว้ที่ CFS

5.8 ให้ EMG มีหน้าที่สรุปเรื่องร้องเรียนที่ได้รับ รายงานในที่ประชุมทบทวนการจัดการ รวมถึงรายงาน EIA Monitoring report เมื่อมีมาตรการกำหนด เพื่อใช้เป็นข้อมูลในการปรับปรุง มาตรฐานการจัดการระบบคุณภาพและสิ่งแวดล้อมต่อไป

6. ภาคผนวก

6.1 แผนภูมิการจัดการเรื่องร้องเรียน

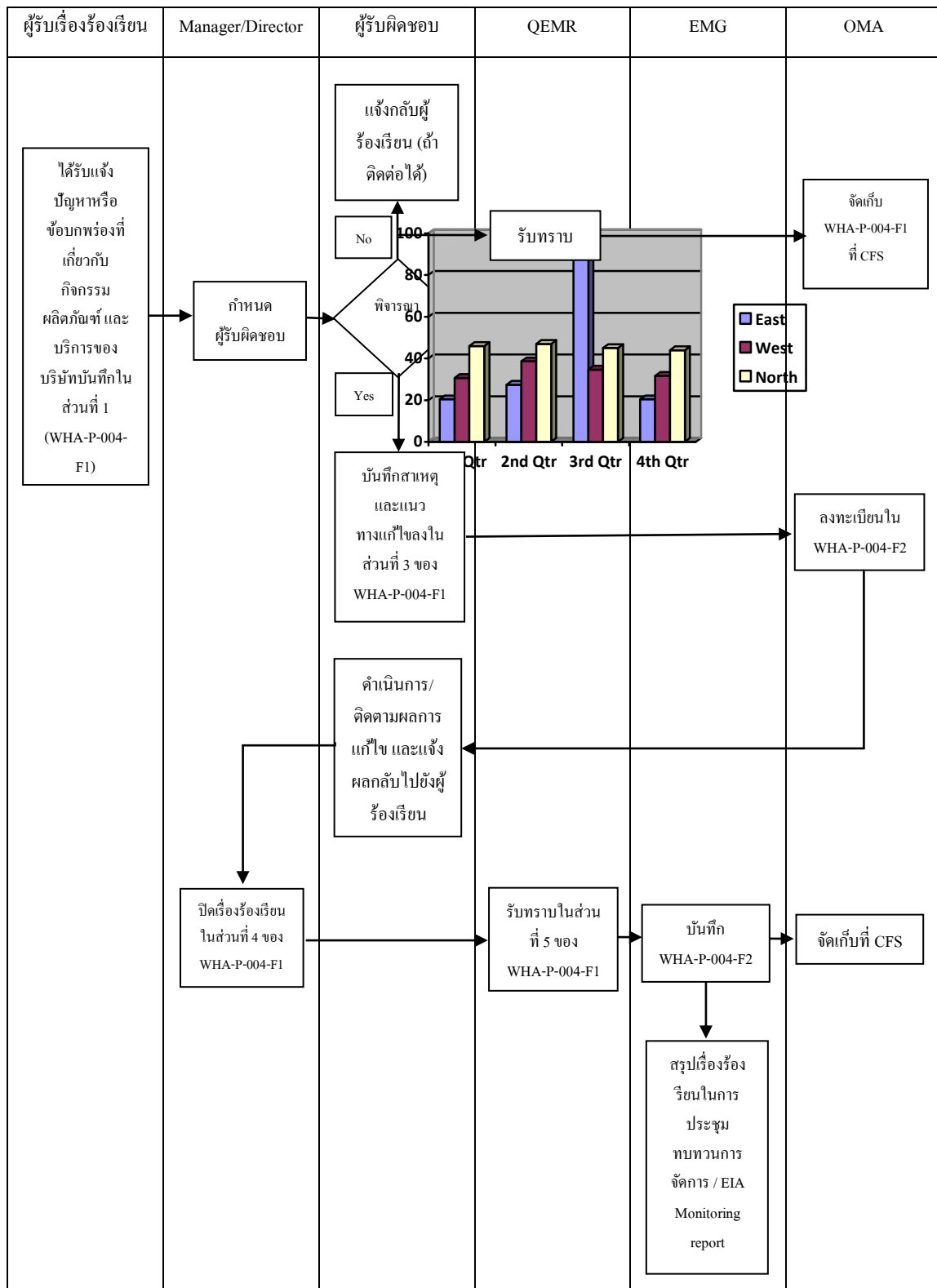
6.2 ตัวอย่างใบรับเรื่องร้องเรียน (WHA-P-004-F1)

6.3 ตัวอย่างทะเบียนเรื่องร้องเรียน (WHA-P-004-F2)

7. บันทึกข้อมูล

รหัส	ผู้รับผิดชอบจัดเก็บ	สถานที่จัดเก็บ	วิธีการจัดเก็บ	ระยะเวลาการจัดเก็บ
WHA-P-004-F1	OMA	CFS	เรียงตามครั้งที่	3 ปี
WHA-P-004-F2	OMA	CFS	เรียงตามปี	3 ปี

ภาคผนวกที่ 6.1 แผนภูมิการจัดการเรื่องร้องเรียน



ภาคผนวกที่ 6.2 ตัวอย่างใบรับเรื่องร้องเรียน (WHA-P-004-F1)

ใบรับเรื่องร้องเรียน (WHA-P-004-F1)

REV. 06

ส่วนที่ 1	สำหรับ ผู้รับเรื่องร้องเรียน	<input type="radio"/> WHACIE1 <input type="radio"/> WHACIE2 <input type="radio"/> WHAEIE <input type="radio"/> ESIE <input type="radio"/> WHAESIE1 <input type="radio"/> WHAESIE2 <input type="radio"/> WHAESIE4 <input type="radio"/> WHALP1, 4 <input type="radio"/> WHASIL <input type="radio"/> WHARIL	เลขที่
1. ชื่อผู้ร้องเรียน บริษัท 2. วิธีการร้องเรียน <input type="radio"/> โทรแจ้ง <input type="radio"/> บันทึกข้อความ/Email <input type="radio"/> วาจา <input type="radio"/> อื่นๆ (ระบุ) 3. รายละเอียดการร้องเรียน <input type="radio"/> คุณภาพ <input type="radio"/> สิ่งแวดล้อม โดยมีรายละเอียดดังนี้..... (หากไม่สามารถสรุปรายละเอียดทั้งหมดได้ให้ใช้เอกสารแนบ) ลงชื่อ วันที่			
ส่วนที่ 2	สำหรับ Manager/Director ฝ่าย		
จากข้อร้องเรียนข้างต้น ขอมอบหมายให้ เป็นผู้รับผิดชอบ ลงชื่อ, ผจ.ผอ.ฝ่าย วันที่			
ส่วนที่ 3	สำหรับผู้รับผิดชอบ		
ได้พิจารณาแล้ว <input type="radio"/> ไม่ถือเป็นเรื่องร้องเรียน/ไม่มีมูลความจริง จึงขอส่งคืนผู้รับเรื่อง และแจ้งกลับผู้ร้องเรียน <input type="radio"/> เป็นเรื่องร้องเรียนและมีมูลความจริง สาเหตุ : แนวทางแก้ไขและการป้องกันการเกิดซ้ำ: ..... ..... .....โดยกำหนดแล้วเสร็จวันที่..... (หากไม่สามารถสรุปรายละเอียดทั้งหมดได้ให้ใช้เอกสารแนบ) หมายเหตุ: เมื่อกำหนดแนวทางการแก้ไขแล้ว ส่งให้ OMA ลงทะเบียน <input type="radio"/> ดำเนินการแก้ไขเรียบร้อยแล้ว วันที่ <input type="radio"/> ไม่สามารถดำเนินการแก้ไขได้ เนื่องจาก <input type="radio"/> ชี้แจงกลับให้ผู้ร้องเรียน/ลูกค้าแล้ววันที่ ช่องทางการชี้แจงกลับ ลงชื่อ วันที่			
ส่วนที่ 4	Manager/Directorฝ่าย	ส่วนที่ 5	สำหรับ QEMR
ขอปิดใบรับเรื่องร้องเรียน		รับทราบ	
ลงชื่อ วันที่		ลงชื่อ วันที่	
ผู้รับผิดชอบจัดเก็บ	สถานที่จัดเก็บ	วิธีการจัดเก็บ	ระยะเวลาจัดเก็บ
OMA	CFS-All-Site	เรียงตามเลขที่	3 ปี

ภาคผนวกที่ 6.3 ตัวอย่างทะเบียนเรื่องร้องเรียน

ทะเบียนเรื่องร้องเรียน (WHA-P-004-F2)

☐ WHACIE1 ☐ WHACIE2 ☐ WHAEIE ☐ ESIE ☐ WHAESIE1 ☐ WHAESIE2 ☐ WHALP1, 4 ☐ WHASIL ☐ WHARIL REV.04

เลขที่	วันที่รับเรื่อง	รายละเอียด	สาเหตุ	แนวทางการแก้ไข	ผู้ร้องเรียน	ผู้รับผิดชอบ/ฝ่าย	กำหนดแล้วเสร็จ	วันที่แล้วเสร็จ
ผู้รับผิดชอบจัดเก็บ		สถานที่จัดเก็บ	วิธีการจัดเก็บ		ระยะเวลาจัดเก็บ			
OMA		CFS-All-Site			เรียงตามปี		3 ปี	

ภาคผนวก ข-8

ผลการตรวจวัดคุณภาพอากาศจากปล่องระบายและอัตราการระบายมลสารและ
ค่าความเข้มข้นของมลสาร กรณีโรงงานที่เข้าข่ายต้องจัดทำ

No.	Factory	Plot size (Rai)	Source	sampling date	พิกัด	Stack		Emission Loading ^{4/} (cal: Q x mg/Nm3/1000)			Emission Loading (cal: kg/d)			Emission Rate			Emission Loading ; (kg/rai/day) depended on stack height			Results			
						Dia. ^{3/}	H	Area	TSP	NO _x	SO ₂	TSP	NO _x	SO ₂	TSP	NO _x	SO ₂	TSP	NO _x	SO ₂	TSP	NOx	S02
						(m)	(m)	(m ²)	(g/s)	(g/s)	(g/s)	(kg/day)	(kg/day)	(kg/day)	Rai	Rai	Rai	(kg/rai/day)	(kg/rai/day)	(kg/rai/day)	(kg/rai/day)	(kg/rai/day)	(kg/rai/day)
1	บริษัท ไอชิน พาวเวอร์เทรน (ประเทศไทย) จำกัด	133.51	ปล่อง QC Dept. (Cutting room)	12 ก.ย. 67		0.30*0.30	12.00	0.235	0.0008	0.0000	0.0000	0.072	0.000	0.000	0.660	0.000	0.000	0.0005	0.0000	0.0000	Pass	Pass	Pass
133.51		ปล่อง MTN Dept. (Painting area)/ตู้พ่นสี	12 ก.ย. 67		0.60*0.60	12.00	0.235	0.0090	0.0000	0.0000	0.774	0.000	0.000	7.105	0.000	0.000	0.0058	0.0000	0.0000	Pass	Pass	Pass	
133.51		ปล่อง Sub line (Assy) /EF-F1 101-5 เครื่องล้าง Subline	12 ก.ย. 67		0.70*0.75	12.00	0.235	0.0111	0.0000	0.0000	0.960	0.000	0.000	8.808	0.000	0.000	0.0072	0.0000	0.0000	Pass	Pass	Pass	
133.51		ปล่อง ATI line (Assy) /EF-F1 101-7 CL-E-010	12 ก.ย. 67		0.70*0.75	12.00	0.235	0.0032	0.0000	0.0000	0.272	0.000	0.000	2.498	0.000	0.000	0.0020	0.0000	0.0000	Pass	Pass	Pass	
133.51		ปล่อง Main line (Assy)/EF-F1 101-9 เครื่องล้าง Subline	12 ก.ย. 67		0.70*0.75	12.00	0.270	0.0051	0.0000	0.0000	0.443	0.000	0.000	4.065	0.000	0.000	0.0033	0.0000	0.0000	Pass	Pass	Pass	
									อัตราการระบายมลพิษ (kg/d)			2.522	0.000	0.000	23.136	0.000	0.000	0.0189	0.0000	0.0000			
2	บริษัท เฟิร์สสตีลวิทยาศาสตร์ (ประเทศไทย) จำกัด	52.00	ปล่อง Compound Exhaust	ก.ค.-ธ.ค. 67		0.400	2.50	0.136	0.0004	0.0000	0.0000	0.031	0.000	0.000	0.287	0.000	0.000	0.0006	0.0000	0.0000	Pass	Pass	Pass
52.00		ปล่อง Bearing Oven Exhaust	ก.ค.-ธ.ค. 67		0.100	4.50	0.009	0.0103	0.0000	0.0000	0.891	0.000	0.000	8.172	0.000	0.000	0.0171	0.0000	0.0000	Pass	Pass	Pass	
52.00		ปล่อง Spin Dryer Exhaust	ก.ค.-ธ.ค. 67		0.100	4.00	0.009	0.0000	0.0000	0.0000	0.001	0.000	0.000	0.009	0.000	0.000	0.0000	0.0000	0.0000	Pass	Pass	Pass	
									อัตราการระบายมลพิษ (kg/d)			0.923	0.000	0.000	8.467	0.000	0.000	0.0177	0.0000	0.0000			
3	บริษัท เอสเอไอซี มอเตอร์-ซีพี จำกัด	432.14	GA Shop : Paint Repair no.1	ก.ค.-ธ.ค. 67		0.90*0.90	30.00	0.560	0.0051	0.0000	0.0000	0.445	0.000	0.000	3.319	0.000	0.000	0.0010	0.0000	0.0000	Pass	Pass	Pass
432.14		GA Shop : Paint Repair no.2	ก.ค.-ธ.ค. 67		0.60*0.81	30.00	0.201	0.0032	0.0000	0.0000	0.274	0.000	0.000	2.046	0.000	0.000	0.0006	0.0000	0.0000	Pass	Pass	Pass	
432.14		Piant Shop : ED Oven	ก.ค.-ธ.ค. 67		1.000	30.00	0.853	0.0004	0.0000	0.0000	0.033	0.000	0.000	0.247	0.000	0.000	0.0001	0.0000	0.0000	Pass	Pass	Pass	
432.14		Piant Shop : TC Oven	ก.ค.-ธ.ค. 67		0.520	30.00	0.231	0.0002	0.0000	0.0000	0.017	0.000	0.000	0.129	0.000	0.000	0.0000	0.0000	0.0000	Pass	Pass	Pass	
432.14		Piant Shop : ED Cooling	ก.ค.-ธ.ค. 67		1.300	30.00	1.442	0.0193	0.0000	0.0000	1.666	0.000	0.000	12.435	0.000	0.000	0.0039	0.0000	0.0000	Pass	Pass	Pass	
432.14		Piant Shop : TC Cooling	ก.ค.-ธ.ค. 67		1.300	30.00	1.442	0.0052	0.0000	0.0000	0.449	0.000	0.000	3.353	0.000	0.000	0.0010	0.0000	0.0000	Pass	Pass	Pass	
									อัตราการระบายมลพิษ (kg/d)			2.885	0.000	0.000	21.529	0.000	0.000	0.0067	0.0000	0.0000			
4	บริษัท ชิง ดำ สตีล คอรัค (ไทยแลนด์) จำกัด	103.20	ปล่อง Boiler No.1	2 ต.ค. 67		0.600		0.307	0.0013	0.0042	0.0002	0.115	0.361	0.013	1.053	4.347	0.051	0.0011	0.0035	0.0001	Pass	Pass	Pass
103.20		Heating Furnace No.1	1 ต.ค. 67		0.600		0.307	0.0003	0.0034	0.0002	0.026	0.292	0.013	0.241	3.522	0.051	0.0003	0.0028	0.0001	Pass	Pass	Pass	
103.20		Heating Furnace No.2	1 ต.ค. 67		0.600		0.307	0.0038	0.0025	0.0001	0.332	0.219	0.011	3.046	2.644	0.042	0.0032	0.0021	0.0001	Pass	Pass	Pass	
103.20		Heating Furnace No.5	1 ต.ค. 67		0.600		0.307	0.0006	0.0030	0.0002	0.054	0.263	0.013	0.496	3.173	0.051	0.0005	0.0026	0.0001	Pass	Pass	Pass	
103.20		Heating Furnace No.6	1 ต.ค. 67		0.600		0.307	0.0004	0.0013	0.0002	0.037	0.114	0.016	0.335	1.370	0.059	0.0004	0.0011	0.0002	Pass	Pass	Pass	
									อัตราการระบายมลพิษ (kg/d)			0.564	1.250	0.067	5.171	15.054	0.253	0.0055	0.0121	0.0007			
5	บริษัท ไทอะโกเซ (ประเทศไทย) จำกัด	51.01	ปล่อง Lab : Polymerization room	ก.ค.-ธ.ค. 67		0.3*0.4	10.00	0.012	0.0008	0.0003	0.0002	0.071	0.022	0.015	0.655	0.262	0.055	0.0014	0.0004	0.0003	Pass	Pass	Pass
51.01		ปล่อง Lab Room : QA room	ก.ค.-ธ.ค. 67		0.3*0.4	10.00	0.012	0.0012	0.0002	0.0059	0.102	0.017	0.513	0.938	0.206	1.929	0.0020	0.0003	0.0101	Pass	Pass	Pass	
51.01		2TGT : ปล่อง Dust Collector S-7421	ก.ค.-ธ.ค. 67		0.200	4.00	0.034	0.0005	0.0000	0.0000	0.041	0.000	0.000	0.378	0.000	0.000	0.0008	0.0000	0.0000	Pass	Pass	Pass	
51.01		Utility : ปล่อง RTO	ก.ค.-ธ.ค. 67		1.040	30.00	0.923	0.0025	0.0008	0.0005	0.213	0.071	0.047	1.590	0.687	0.129	0.0042	0.0014	0.0009	Pass	Pass	Pass	
51.01		Utility : ปล่อง Boiler	ก.ค.-ธ.ค. 67		0.600	24.00	0.307	0.0137	0.0004	0.0114	1.187	0.033	0.988	10.893	0.397	3.713	0.0233	0.0006	0.0194	Pass	Pass	Pass	
51.01		2TGT : ปล่อง Wet Scrubber T-7450	ก.ค.-ธ.ค. 67		0.200	4.00	0.034	0.0003	0.0000	0.0000	0.024	0.000	0.000	0.221	0.000	0.000	0.0005	0.0000	0.0000	Pass	Pass	Pass	
									อัตราการระบายมลพิษ (kg/d)			1.639	0.143	1.562	14.675	1.552	5.825	0.0321	0.0028	0.0306			
6	บริษัท เซอร์เฟส ทรีทเม้น เทคโนโลยี (ประเทศไทย) จำกัด	8.52	MCCT #1 dry booth	9 ธ.ค. 67		0.45*0.40	10.00	0.028	0.0037	0.0000	0.0000	0.319	0.000	0.000	2.929	0.000	0.000	0.0375	0.0000	0.0000	Pass	Pass	Pass
8.52		MCCT #2 dry booth	9 ธ.ค. 67		0.45*0.40	10.00	0.028	0.0015	0.0000	0.0000	0.129	0.000	0.000	1.179	0.000	0.000	0.0151	0.0000	0.0000	Pass	Pass	Pass	
8.52		Upper Chassis dry booth	9 ธ.ค. 67		0.45*0.40	10.00	0.028	0.0012	0.0000	0.0000	0.101	0.000	0.000	0.929	0.000	0.000	0.0119	0.0000	0.0000	Pass	Pass	Pass	
8.52		TRS-2 dry booth	10 ธ.ค. 67		0.45*0.40	10.00	0.028	0.0016	0.0000	0.0000	0.135	0.000	0.000	1.239	0.000	0.000	0.0159	0.0000	0.0000	Pass	Pass	Pass	
8.52		Hayashi dry booth	10 ธ.ค. 67		0.45*0.40	10.00	0.028	0.0027	0.0000	0.0000	0.234	0.000	0.000	2.147	0.000	0.000	0.0275	0.0000	0.0000	Pass	Pass	Pass	
8.52		TC dry booth	10 ธ.ค. 67		0.45*0.40	10.00	0.028	0.0017	0.0000	0.0000	0.150	0.000	0.000	1.378	0.000	0.000	0.0176	0.0000	0.0000	Pass	Pass	Pass	
8.52		Mixing booth	9 ธ.ค. 67		0.45*0.20	10.00	0.007	0.0023	0.0000	0.0000	0.200	0.000	0.000	1.832	0.000	0.000	0.0234	0.0000	0.0000	Pass	Pass	Pass	
8.52		MCCT #1 Oven (F2)	9 ธ.ค. 67		0.45*0.40	10.00	0.028	0.0025	0.0000	0.0000	0.216	0.000	0.000	1.983	0.000	0.000	0.0254	0.0000	0.0000	Pass	Pass	Pass	
8.52		Upper Oven (F2)	9 ธ.ค. 67		0.45*0.40																		

No.	Factory	Plot size (Rai)	Source	sampling date	พิกัด	Stack		Area (m ²)	Emission Loading ^{4/} (cal: Q x mg/Nm3/1000)			Emission Loading (cal: kg/d)			Emission Rate			Emission Loading ; (kg/rai/day) depended on stack height			Results		
						Dia. ^{3/}	H		TSP	NO _x	SO ₂	TSP	NO _x	SO ₂	TSP	NO _x	SO ₂	TSP	NO _x	SO ₂	TSP	NOx	SO2
						(m)	(m)		(g/s)	(g/s)	(g/s)	(kg/day)	(kg/day)	(kg/day)	Rai	Rai	Rai	(kg/rai/day)	(kg/rai/day)	(kg/rai/day)	(kg/rai/day)	(kg/rai/day)	(kg/rai/day)
15	บริษัท หยินไล อีเล็กทริก (ประเทศไทย) จำกัด	15.45	ปล่อง Wet Scrubber	ก.ค.-ธ.ค. 66		0.700	27.70	0.418	0.0000	0.0084	0.0140	0.000	0.726	1.209	0.000	8.750	4.543	0.0000	0.0470	0.0782	Pass	Pass	Pass
									อัตราการระบายมลพิษ (kg/d)			0.000	0.726	1.209	0.000	8.750	4.543	0.0000	0.0470	0.0782			
16	บริษัท เอ็นริช อินดัสเตรียล (ไทย) จำกัด	46.10	ปล่องระบายอากาศโรงไม้	26 ธ.ค. 67		0.950	15.00	0.770	0.0702	0.0000	0.0000	6.062	0.000	0.000	55.617	0.000	0.000	0.1315	0.0000	0.0000	FALSE	Pass	Pass
		46.10	ปล่องระบายอากาศโรงโม่	26 ธ.ค. 67		0.63*0.63	9.00	0.003	0.0031	0.0000	0.0000	0.271	0.000	0.000	2.485	0.000	0.000	0.0059	0.0000	0.0000	Pass	Pass	Pass
									อัตราการระบายมลพิษ (kg/d)			6.333	0.000	0.000	58.102	0.000	0.000	0.1374	0.0000	0.0000			
17	บริษัท ยาชัน อเมริชีพส์ (ไทยแลนด์) จำกัด	28.04	หม้อไอน้ำ 1	6 พ.ย. 67		0.300	10.00	0.077	0.0002	0.0045	0.0000	0.019	0.392	0.000	0.171	4.722	0.000	0.0007	0.0140	0.0000	Pass	Pass	Pass
									อัตราการระบายมลพิษ (kg/d)			0.019	0.392	0.000	0.171	4.722	0.000	0.0007	0.0140	0.0000			
18	บริษัท เอเพ็กซ์ อินเตอร์เนชั่นแนล (ประเทศไทย) จำกัด	28.14	ปล่องระบายอากาศโรงขบ C01	3 ต.ค. 67		1.200	10.00	1.228	0.0445	0.0033	0.0045	3.842	0.281	0.391	35.252	3.384	1.469	0.1365	0.0100	0.0139	FALSE	Pass	Pass
									อัตราการระบายมลพิษ (kg/d)			3.842	0.281	0.391	35.252	3.384	1.469	0.1365	0.0100	0.0139			
19	บริษัท โจไฟ่ นอนโวเวน (ประเทศไทย) จำกัด	44.72	ปล่อง SPB 1	26 ธ.ค. 67		0.200	15.00	0.034	0.0006	0.0005	0.0008	0.055	0.041	0.070	0.501	0.496	0.264	0.0012	0.0009	0.0016	Pass	Pass	Pass
									อัตราการระบายมลพิษ (kg/d)			0.055	0.041	0.070	0.501	0.496	0.264	0.0012	0.0009	0.0016			

โรงงานที่ไม่ได้ผลการตรวจวัดคุณภาพอากาศจากปล่อง (ก.ค.-ธ.ค. 67)

โรงงานที่ส่งผลการตรวจวัดคุณภาพอากาศจากปล่อง (ก.ค.-ธ.ค. 67)

1,247.80	พื้นที่ทั้งหมดของ 19 โรงงาน	1,247.80
	เนื้อที่นิคมส่วนอุตสาหกรรม	2,560.06

238.025	519.408	113.152
1,247.80		
2,560.06		

รวมอัตราการระบายมลสาร (ไร่)			
Emission Total Loading (rai)		TSP	NO _x
		Rai	Rai
1. รวมอัตราการระบายมลสาร (ไร่)		238.02	519.41
2. ขนาดพื้นที่โรงงานทั้งหมด (ไร่)			113.15
3. พื้นที่นิคมฯ ส่วนอุตสาหกรรมทั่วไป			2,560.06
4. พื้นที่นิคมฯ ส่วนอุตสาหกรรม ที่เหลือ (ไร่) (3-1)		2322.04	2040.65
5. อัตราการระบายคิดเป็นร้อยละ		9.30	20.29

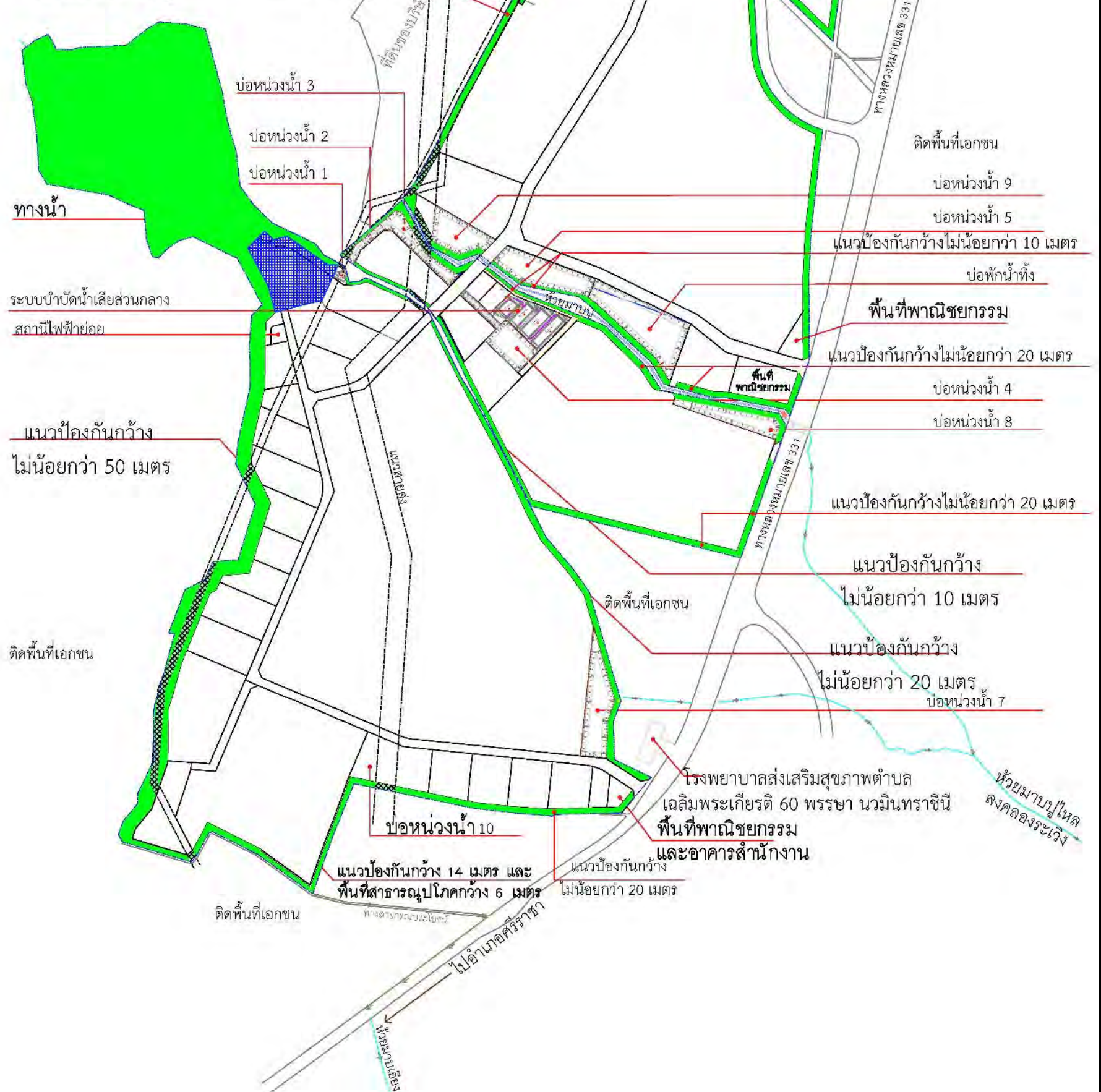
ภาคผนวก ข-9

แผนผังพื้นที่อุตสาหกรรมที่ไม่มีการระบายมลสารอากาศ

สัญลักษณ์

- พื้นที่สีเขียวและแนวป้องกัน
- พื้นที่สีเขียวได้สายส่งตามแนวป้องกัน
- พื้นที่อุตสาหกรรมที่ไม่มีการระบายมลสารอากาศจากปล่องระบาย (ก๊าซออกไซด์ ฝุ่นละออง และ Hazardous air pollutants)

เขตอนุรักษ์พันธุ์สัตว์ป่า
เขาเขียว-เขาชมภู่



ที่มา : บริษัท ดับบลิวเอชเอ อินดัสเตรียล ดีเวลลอปเม้นท์ จำกัด (มหาชน), 2567

รูปที่ 1 พื้นที่อุตสาหกรรมที่ไม่มีการระบายมลสารอากาศ